

2012 OCT 15 PM 3: 15

ADDENDUM NO.4

TO: All PROSPECTIVE BIDDERS

SUBJECT: BID NO.: 9695-0/18

TITLE: Traffic Poles, Mast Heads, and L.E.D Signals & Housings

BID OPENING DATE: Wednesday 10/17/2012

This Addendum is and does become a part of the above mentioned bid.

Please note the following change(s):

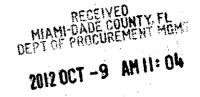
The following clarification is being made to Section 2 Special Conditions, Paragraph 2.27 Stock Levels Shall Be Maintained by Awarded Bidder

For Group A Traffic Signal Poles, Mast Arms and Street Lights Poles Traffic Poles, Mast Arms and all non-standard street light poles (i.e. decorative) will not have to be maintained in stock.

All terms, covenants and conditions of the subject solicitation and any addenda issued thereto shall apply, except to the extent herein amended.

Mary Hammett





ADDENDUM NO.3

TO: All PROSPECTIVE BIDDERS

SUBJECT: BID NO.: 9695-0/18

TITLE: Traffic Poles, Mast Heads, and L.E.D Signals & Housings

BID OPENING DATE: 10/17/2012

This Addendum is and does become a part of the above mentioned bid.

Please note the following change(s):

1. Section 4, of the Invitation to Bid Package, Group B page No. 67 is being replaced in its entirety with page No.67-A.

2. Question: Will the County be responsible for the installation? Answer: Yes

All terms, covenants and conditions of the subject solicitation and any addenda issued thereto shall apply, except to the extent herein amended.

Group B: L.E.D. Pedestrian Signals & Housing

As Identified In L.E.D. Pedestrian Signal Hand/Person Module

Item:	Est. Quantity:	Description:	Unit Price:
3	2,500	L.E.D. Countdown Signals Modules Only Dialight Model #430-6479-001F or Approved Equal	\$Each
		Model#	
4	750	L.E. D Countdown Signals Modules Dialight Model #430-6479-001F Complete with Housing or Approved Equal	\$Each
	<u> </u>	Model#	



ADDENDUM NO. 2

TO: All Vendors

SUBJECT: BID NO.: 9695-0/18

TITLE: Traffic Poles, Mast Heads, and L.E.D Signals & Housings

BID OPENING DATE: 10/17/2012

This Addendum is and does become a part of the above mentioned bid.

Please note the following change(s):

Section 4, of the Proposal Package, Group B Item No. 1, Item No 2 and Appendix A is being deleted.

All terms, covenants and conditions of the subject solicitation and any addenda issued thereto shall apply, except to the extent herein amended.

Mary Hammett



RECEIVED
MIAMI-DADE COUNTY, FL
DEPT OF PROCUREMENT MGMT

2012 OCT -2 AM 8: 35

ADDENDUM NO. 1

TO: All Vendors

SUBJECT: BID NO.: 9695-0/18

TITLE: Traffic Poles, Mast Heads, and L.E.D Signals & Housings

BID OPENING DATE: 10/17/2012

This Addendum is and does become a part of the above mentioned bid.

Please note the following change(s):

Section 4, of the Proposal Package, Group B Item No. 4 Description has been corrected to read:

L.E.D Countdown Signals Modules Dialight Modules (Dialight Model#430-6479-0001F) Complete with Housing or Approved Equal

All terms, covenants and conditions of the subject solicitation and any addenda issued thereto shall apply, except to the extent herein amended.

BID NO.: 9695-0/18

OPENING: 2:00 P.M. Wednesday October 17, 2012

INVITATION TO BID

TITLE:

Traffic Poles, Mast Heads, and L.E.D Signals & Housings

THE FOLLOWING ARE REQUIREMENTS OF THIS BID, AS NOTED BELOW:

SMALL BUSINESS ENTERPRISE MEASURE:	See Section 2 Paragraph 2.2
INFORMATION SHEET	See Section 2 Paragraph 2.25
SAMPLES/INFORMATION SHEETS:	See Section 2 Paragraph 2.9
USER ACCESS PROGRAM:	See Section 2 Paragraph 2.21
WRITTEN WARRANTY:	See Section 2 Paragraph 2.19

FOR INFORMATION CONTACT:

Mary Hammett, 305-375-5471, mhammet@miamidade.gov

IMPORTANT NOTICE TO BIDDERS:

- READ THIS ENTIRE DOCUMENT AND HANDLE ALL QUESTIONS IN ACCORDANCE WITH SECTION 1, PARAGRAPH 1.2(D).
- FAILURE TO COMPLETE THE CERTIFICATION REGARDING LOCAL PREFERENCE ON BID SUBMITTAL FORM IN SECTION 4 SHALL RENDER THE AWARDED BIDDER INELIGIBLE FOR LOCAL PREFERENCE
- FAILURE TO SIGN BID SUBMITTAL FORM IN SECTION 4 WILL RENDER YOUR BID NON-RESPONSIVE



INVITATION TO BID

Bid Number: 9695-0/18

Bid Title: Traffic Poles, Mast Heads, and L.E.D. Signals & Housings

Procurement Associate: Mary Hammett

Bids will be accepted until 2:00 p.m. on Wednesday, October 17, 2012

Bids will be publicly opened. The County provides equal access and does not discriminate on the basis of disability in its programs or services. It is our policy to make all communication available to the public, including those who may be visually or hearing impaired. If you require information in a non-traditional format please call 305-375-5278.

Instructions: The Clerk of the Board business hours are 8:00am to 4:30pm, Monday through Friday. Additionally, the Clerk of the Board is closed on holidays observed by the County. Each Bid submitted to the Clerk of the Board shall have the following information clearly marked on the face of the envelope: the Awarded bidders name, return address, Bid number, opening date of the Bid and the title of the Bid. Included in the envelope shall be an original and two copies of the Bid Submittal, plus attachments if applicable.

All Bids received time and date stamped by the Clerk of the Board prior to the bid submittal deadline shall be accepted as timely submitted. The circumstances surrounding all bids received and time stamped by the Clerk of the Board after the bid submittal deadline will be evaluated by the procuring department, in consultation with the County Attorney's Office, to determine whether the bid will be accepted as timely.

NOTICE TO ALL AWARDED BIDDERS:

- FAILURE TO SIGN THE BID SUBMITTAL FORM WILL RENDER YOUR BID NON-RESPONSIVE.
- THE BID SUBMITTAL FORM CONTAINS IMPORTANT CERTIFICATIONS THAT REQUIRE REVIEW AND COMPLETION BY ANY AWARDED BIDDER RESPONDING TO THIS SOLICITATION.

1.1. DEFINITIONS

Bid - shall refer to any offer(s) submitted in response to this solicitation.

Bidder - shall refer to anyone submitting a Bid in response to this eoficitation

Sld Solicitation - shall mean this solicitation documentation, including

any and all addentia. Bid Submittal Form - defines the requirement of items to be purchased, and must be completed and submitted with Bid. The Bidder should indicate its name in the appropriate space on each page.
County - shall refer to Mismi-Dade County, Florida

Country - snall refer to wearn-peop ourny, record ISD/PM - shall refer to Wkonl-Dade Country's Internal Services Department, Procurement Management Division.

Enrolled Vendor - shall refer to a firm that has completed the

necessary documentation in order to receive Bid notifications from the

County
Registered Vendor – shall refer to a firm that has completed the
Miami-Dade County Business Entity Registration Application and has satisfied all requirements to enter into business agreements with the

The Vendor Registration Package - shall refer to the Business Entity Registration Application.

For additional information about on-line vendor enrollment or vendor registration contact the Vendor Assistance Unit at 111 N.W. 1st Street, 13th Floor, Miami, FL 33128, Phone 305-375-5773. Vendors can enroll online and obtain forms to register by visiting our web site at www.mlamidade.gov/t5D/PM

1.2. INSTRUCTIONS TO BIDDERS

A. Bidder Qualification

It is the policy of the County to encourage full and open composition among all available qualified vendors. All vendors regularly engaged in the type of work specified in the Bid Solialization are encouraged to submit Bkis. Vendors may enroll with the County to be included on a notification list for selected categories of goods and services. To be eligible for award of a contract (including small purchase orders). Bidders must become a Registered Vendor. Only Registered Vendors can be awarded County contracts. Vendors are required to register with the County by contacting the Vendor Assistance Unit. The County endeavors to obtain the participation of all qualified small business enterprises. For information and is apply for certification, contact the Department of Small Business Development at 111 R.W. 1 Street, 19th Floor, Mlami, FL 38129-1900, or telephone at 305-375-3111. County employees and board members wishing to do business with the County are referred to Section 2-11.1 of the Meant-Dade County Code relating to Conflict of Interest and Code of Ethics.

B. Vendor Registration

To be recommended for award the County requires that vendors complete a Mismi-Dada County Vendor Registration Package. Effective June 1, 2008, a new Vendor Registration Package, including a Uniform Allidavit Packet (Allidavit form), must be completed by vendors and returned to the Internal Services Department, Procurement Management Division (ISD/PM), Vendor Assistence Unit, within fourteen (14) days of notification of the intent to recommend for award. In the event the Vendor Registration Package is not properly completed and returned within the specified time, the County may in its sole discretion, award to the next lowest responsive, responsible Bidder. The Bidder is responsible for obtaining the Vendor Registration Package, including all affidavits by downloading from the ISD/PM website at www.mismidash.gov or from the Vendor Assistance Unit at 111 N.W. 1st Street, 15th Floor, Mismi, FL 33128.

Bidders are required to affirm that all information submitted with the Vendor Registration Package is current, complete and accurate, at the time they submit a response to a Bid Solicitation, by completing the provided Allinnation of Vendor Affidavit form.

In becoming a Registered Vendor with Miamt-Dade County, the vendor confirms its knowledge of and commitment to comply with the following:

Miami-Dade County Ownership Disclosure Affidavit (Sec. 2-8.1 of the County Code)

Mismi-Dade County Employment Disclosure Ailidevit (County Ordinance No. 90-133, emending Section 2.8-1(d)(2) of the County Code)

BID NO.: 9695-0/18

- Mami-Dade Employment Drug-free Workplace Certification (Section 2-8.1.2(b) of the Gounty Code)
- Mami-Cade Disability and Hondiscrimination Affidavit (Article 1, Section 2-8.1.5 Resolution R182-00 Amending R-385-95)
- Mami-Dade County Debarment Disclosure Affidavif (Section 10.38 of the County Code)
- Miami-Dade County Vendor Obligation to County Afficievit (Section 2-8.1 of the County Code)
- Mismi-Dade County Code of Business Ethics Affidavit (Article 1, Section 2-3.1(i) and 2-11(i)(1) of this County Code through (5) and (9) of the County Code and County Ordinance No 00-1 amending Section 2-11.1(c) of the County Code)
- Niami-Dade County Family Leave Affidavit (Article V of Chapter 11 of the County Code)
- Mismi-Dade County Living Wage Affidevit (Section 2-8.9 of the County Code)
- 10. Mismi-Dade County Domestic Leave and Reporting Affidavit (Article 8, Section 11A-60 11A-67 of the County Code)
- 11. Subcontracting Practices (Ordinance 97-35)
- 12. Subcontractor/Supplier Listing (Osdinance 97-104)
- 13. Environmentally Acceptable Packaging Resolution (H-738-92)
- 14. W-9 and 8109 Forms

The vendor must furnish these forms as required by the Internal Revenue Service.

15. Social Security Number
In order to establish a file for your firm, you must provide your firm's Federal Employer Identification Number (FEIN). If no FEIN oxists, the Social Security Number of the ewner or individual must be provided. This number becomes your "County Vendor Number". To comply with Section 119.071(5) of the Florida Statutes relating to the collection of an individual's Social Security Number, be aware that ISD/PM requests the Social Security Number for the following purposes:

- kientilication of individual scoourt records To make payments to individual/vender for goods and services provided to Mismi-Dade County

- Tax reporting purposes
 To provide a unique identifier in the vander database that may be used for sourching and sorting departmental records
- 16. Office of the Inspector General Pursuant to Section 2-1076 of the County Code,

17. Small Business Enterprises

Then county endeavors to obtain the perticipation of all small business enterprises pursuant to Sections 2-8.2, 2-8.2.3 and 2-8.2.4 of the County Code and Title 49 of the Code of Pederal Regulations,

il. Antikust Laws

By acceptance of any contract, the vendor agrees to comply with all amiltrust laws of the United States and the State of Florida.

C. PUBLIC ENTITY CRIMES

Pursuant to Section 287.133(2)(a) of the Fiorida Statutes, a person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a Bid on a contract to provide any goods or services to a public entity, may not submit a Bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit Bids on leases of real property to a public entity, may not be avanded or perform work as a contractor, supplier, subcombactor, or consultant under a contract with any public entity, and may not braneact business with any public entity in excess of the threshold amount provided in Section 297.017 of the Fiorida Statutes, for CATEGORY TWO for a period of 38 months from the date of being placed on the convicted vendor list.

Request for Additional information

Pursuant to Section 2-ti-1(t) of the County Code, all Bid Solialitations, once advertised and until an award recommendation Soliaficitions, once advortised and until an award recommendation has been forwarded to the appropriate authority are under the "Cone of Silence". Any communication or inquiries, except for cignification of process or procedure already contained in the solicitation, are to be made in writing to the attention of the Procurement Agent Identified on the front page of the solicitation. Such inquiries or request for Intermation shall be submitted to the programment agent in writing and shall contain the requestor's name, address, and telephone number. If transmitted by facelimits, the request should also include a cover sheet with Bidder's fessimile number. The requestor must also file a copy of badder's facisimile number. The requestor must also as a copy of this written request with the Clerk of the Board, 111 NW 1º Street, 17º Floor, suite 202, Miami, Florida 33128-1993 or small clerking@mismidade.gov.

The Internal Services Department, Procurement Management Division may leave an addendum in response to any inquiry.

received, prior to Bis opening, which changes, adds to or eladies the terms, provisions or requirements of the solicitation. The Bisder should not rely on any representation, statement or explanation whether written or verbal, other than those made in this Bid Solicitation document or in any addenda issued. Where there appears to be a conflict between this Bid Solicitation and

any addends, the last addendum issued shall prevail.

It is the Bidder's responsibility to ensure receipt of all addends, and any accompanying documentation, The Bidder is required to submit with its Bid a signed "Admowledgment of Addenda" form, when any addenda have been issued.

Contents of Bid Solicitation and Bidders' Responsibilities

It is the responsibility of the Bidder to become thoroughly familiar with the Bid requirements, terms and conditions of this solicitation. Pleas of ignorance by the Bidder of conditions that exist or that may exist will not be accepted as a basis for varying the requirements of the County, or the compensation to be paid to the Bidder,

In the event a Bidder wishes to protest any part of the General Canditions, Special Conditions and/or Technical Specifications contained in the Bid Solicitation it must the a notice of protest in writing with the issuing department no later than 48 hours prior to the Dic opening date and hour specified in the solicitation. Failure to ille a timely notice of profest will constitute a waiver of

proceedings.
This solicitation is subject to all legal requirements contained in the applicable County Ordinances, Administrative Orders, and Recolutions, as well as all applicable State and Federal Statutes. Where conflict exists between this Bid Solicitation and these legal

requirements, the authority shall prevail in the following order: Federal, State and local.

It is the responsibility of the Bidder/Proposer, prior to conducting any lobbying regarding this solicitation to file the appropriate form with the Clark of the Board stating that a particular lobbyist is authorized to represent the Bidder/Proposer. The Bidder/Proposor shall also file a form with the Clork of the Board at the point in time at which a labbytet is no longer authorized to represent said Bidder/ Proposer. Failure of a Bidder/Proposer to file the appropriate form required, in relation to each solicitation, may be considered as evidence that the Bidder/Proposer is not a responsible contractor.

Change or Withdrawal of Bids

Changes to Bid - Prior to the selectuled Bid opening a Bidder may change its Bid by submitting a new Bid, (as Indicated on the cover page) with a letter in writing on the firms letterhead, signed by an authorized agent stating that the new submittal replaces the original submittal. The new submittal shall contain the letter and

BID NO.: 9695-0/18

original submittal. The new submittal shall contain the letter and all information as required for submitting the original Bid. No changes to a Bid will be accepted after the Bid has been opened. Withdrawal of Bid — A Bid shall be irrevocable imless the Bid is withdrawn as provided herein. Only a written letter received by ISD/PM prior to the Bid opening date may withdraw a bid. A bid may also be withdrawn ninety (90) days after the Bid has been opened and prior to award, by submitting a letter to the contact person identified on the front occur of this Bid Solicitation. The withdrawal letter must be on company letterhead and signed by an artificitized event of the Bidder. an authorized agent of the Bidder.

Conflicts Within The Bid Solicitation

Where there appears to he a contest between the General Terms and Conditions, Special Conditions, the Technical Specifications, the Bid Submittel Section, or any addendum leaved, the order of precedence shall be: the last addendum issued, the Bid Submittel Section, the Technical Specifications, the Special Conditions, and then the General Terms and Conditions.

Prompt Payment Terms

- Prompt regiment terms

 It is the policy of Miami-Dado County that payment for all
 purchases by County agencies and the Public Health Trust shall
 be made in a timely manner and that interest payments be made
 on late payments. In accordance with Florida Statutes, Section 219.74 and Saction 2-8.1.4 of the Marai-Dade County Code, the time at which payment shall be due from the County or the Public Health Trust shall be forty-five (45) days from receipt of a proper lavolce. The time at which payment shall be due to small businesses shall be thirty (30) days from receipt of a proper invoice. All payments due from the County or the Public Health Trust, and not made within the time specified by this section, shall bear interest from thirty (30) days after the due date at the rate of one percent (1%) per month on the unpaid balancs. Further, proceedings to resolve disputes for payment of obligations shall be concluded by final written decision of the County Mayor, or his or her designee(s), not leter than sixty (60) days after the date on which the proper invoice was received by the County or the Public Health Trust
- The Bidder may other each discounts for prompt payments; however, such discounts will not be considered in determining the lowest price during bid evaluation. Bidders are requested to provide prompt payment terms in the space provided on the Bid submittal signature page of the solicitation.

Accounts Receivable Adjustments

In accordance with Miami-Dade County implementing Order 3-9, Accounts Receivable Adjustments, if money is awad by the Contractor to the County, whether under this Contract or for any other purpose, the County reserves the right to retain such amount from payment due by County to the Contractor under this Contract. Such retained amount shall be applied to the amount owed by the Contractor to the County. The Contractor shall have no further claim to such retained amounts which shall be deemed full accord and satisfaction of the amount due by the County to the Contractor for the applicable payment due herein.

1.3. PREPARATION OF BIDS

- The Bid automittal form defines requirements of items to be purchased, and must be completed and automitted with the Bid. Use of any other form will result in the rejection of the Biddar's
- The Bid submitted form must be logible. Bidders shall use typewriter, computer or ink. All changes must be crossed out and initiated in link. Fallure to comply with these requirements may cause the Bid to be rejected.

An authorized agent of the Bidder's tim must sign the Bid submilital form. FAILURE TO SIGN THE BID SUBMITTAL FORM SHALL BENDER THE BID NON-RESPONSIVE

The Bidder may be considered non-responsive if bids are conditioned to modifications, changes, or revisions to the terms and conditions of this solicitation.

The Bidder may submit alternate Bid(e) for the same solicitation provided that such offer is allowable under the terms and conditions. The alternate Bid must meet or exceed the minimum

requirements and be submitted on a separate Eld scomittal marked "Aliemate Bid".

F. When there is a discrepancy between the unit prices and any extended prices, the unit prices will prevail.

G. An optional electronic submittal shall not be considered a part of the bid if it differs in any respect from the required manual submittal in the original hard copy.

1.4. CANCELLATION OF BID SOLIGITATION

Minmi-Dade County reserves the right to cancel, in whole or in part, any invitation to Eld when it is in the best interest of the County.

1.5. AWARD OF BID SOLICITATION

A. This Bid may be awarded to the responsible Bidder meeting all requirements as sot forth in the solicitation. The County reserves the right to reject any and all Bids, to watve irregularities or technicalities and to re-edventice for all or any part of this Bid Solicitation as deemed in its best interest. The County shall be the sole judge of its best interest.

8. When there are multiple line items in a solicitation, the County reserves the right to award on an individual liters basis, any combination of items, total low Bid or in whichever manner

deamed in the best interest of the County.

C. The County reserves the right to reject any and all Bids if it is determined that prices are excessive, best offers are determined to be unreasonable, or it is otherwise determined to be in the County's best interest to do so.

 The County reserves the right to negotiate prices with the low bidder, provided that the scope of work of this solicitation remains

the same

- E. Award of this Bid Solicitation will only be made to firms that have completed the Miami-Dade County Business Entity Registration Application and that satisfy all necessary logal requirements to do business with Miami-Dade County. Firms domicited in Miami-Dade County must present a copy of their Miami-Dade County issued Local Business Tax Receipt.
- F. Pursuant to County Code Section 2-9.1(g), the Bidder's performance as a prime contractor or subcontractor on previous County contracts shall be taken into account in evaluating the Bid received for this Bid Solicitation.
- G. To obtain a copy of the Bid talsulation, Bidder(s) shall enclose an appropriately sixed self-addressed stamped envelops or make a request by e-mail. Bid results will not be given by telephone or fereinfle.
- facetrille.

 H. The Bid Solicitation, any addenda and/or properly executed modifications, the purchase order, and any change order(a) shall constitute the contract.
- In accordance with Resolution R-1574-98, the Director of ISD/FM will decide all lie Bids.
- Award of this Bid may be predicated on compliance with and submitted of all required documents as stipulated in the Bid Solicitation.
- K. The County reserves the right to request and evaluate additional information from any bidder after the submission deadline as the County deems necessary.

1.6. CONTRACT EXTENSION

- A. The County reserves the right to exercise its option to extend a contract for up to one hundred-eighty (180) calendar days beyond the current contract period and will notify the contractor in writing of the extension.
- B. This contract may be extended beyond the initial one hundredolighty (180) day extension period upon mutual agreement between the County and the successful Bidder(s) upon approval by the Board of County Commissionens.

1.7. WARRANTY

All warrantics express and implied, shall be made available to the County for goods and services covered by this 3st Solicitation. All goods furnished shall be fully guaranteed by the zuccessful Bidder against factory defects and workmenship. At no expense to the County, the successful Bidder shell correct any and all apparent and latent defects that may occur within the manufacturer's standard warranty. The Special Conditions of the Bid Solicitation may supersed the manufacturer's standard warranty.

1.8. ESTIMATED QUARTITIES

Estimated quantities or defars are for Bidder's guidance only: (a) estimates are based on the County's anticipated meeds and/or usage during a previous contract period and; (a) the County may use these estimates to determine the low Bidder. Estimated quantities that may be contemplate or include possible additional quantities that may be ordered by other government, quasi-government or non-profit entities utilizing this contract under the Joint Punthase portion of the County User Access Program (UAP) described in Section 2.21 of this contract solicitation and the resulting contract, if that section is present in this solicitation document. No guarantee is expressed or implies as to quantities or delias that will be used during the contract period. The County is not obligated to place any order for the given amount subsequent to the award of this Bid Solicitation.

BID NO.: 9695-0/18

1.9. NON-EXCLUSIVITY

It is the intent of the County to enter into an agreement with the successful Bidder that will satisfy its needs as describe herein. However, the County reserves the right as deemed in its best interest to perform, or cause to be performed, the work and services, or any portion thereof, herein described in any manner it sees fit, including but not limited for award of other contracts, use of any contractor, or perform the work with its own employees.

1.10. LOCAL PREFERENCE

The evaluation of competitive bids is subject to Section 2-8.5 of the Mismi-Dade County Code, which, except where contrary to federal and state law, or any other funding source requirements, provides that preference be given to local businesses. A local business shall be defined as:

- a business that has a valid Local Business Tax Receipt, Issued by Mismi-Dade County at least one year prior to bid or proposal submission, that is appropriate for the goods, services or construction to be purchased;
- a business that has physical business address located within the limits of Mismi-Oade County from which the vendor operates or performs business. Post Office Boxes are not verifiable and shall not be used for the purpose of ostablishing said physical address; and
- 3. a business that contributes to the economic development and well-being of Miami-Dade County in a verifiable and measurable way. This may include but not be itraited to the retention and expansion of employment apportunities and the support and increase in the County's tax base. To satisfy this requirement, the vendor shall affirm in writing its compliance with either of the following objective critaria as of the bild or proposal submission date stated in the solicitation:
 - (a) vendor has at lesst ten (10) permanent full time employees, or part time employees equivalent to 10 FTE ("full-time equivalent" employees working 40 hours per week) that live in Miami-Dade County, or at least 25% of ite employees that live in Miami-Dade County, or
 - (b) vendor contributes to the County's tax base by paying either real property taxes or trangible personal property taxes to Miami-Dado County, or
 - (c) some other verifiable and measurable contribution to the economic development and well-being of Miami-Dado County.

When there is a responsive bld from a Mismi-Dade local business within 16% of the towest price submitted by a responsive non-local business, the local business and the non-local low bidder shall have the apportunity to submit a best and final bid equal to or lower than the arrount of the low bid previously submitted by the non-local business.

At this time, there is an interlocal agreement in effect between Milami-Dade and Broward Counties until September 2012, therefore, a vender which meets the requirements of (1), (2) and (3) above for Broward County shall be considered a local business pursuoni to this Section.

1.11. CONTINUATION OF WORK

Any work that commences prior to and will extend beyond the

MIAMI-DADE COUNTY

SECTION 1 GENERAL TERMS AND CONDITIONS

expiration date of the current contract period shall, unless terminated by multial written agreement between the County and the successful Bidder, continue until completion at the same prices, terms and conditions.

1,12, BID PROTEST

A recommendation for contract eward or rejection of award may be protexted by a Bidder in accordance with the procedures contained in Sections 2-8.3 and 2-8.4 of the County Code, as amended, and as established in Administrative Order No.3-21.

1.13. LAWS AND REGULATIONS

The successful Bidder shall comply with all laws and regulations applicable to provide the goods and/or services specified in this Bid Boliotation. The Bidder shall comply with all federal, state and local laws that may affect the goods and/or services offered.

1.14. LICENSES, PERMITS AND FEES

The awarded bidder[s] shall hold all licenses and/or certifications, obtain and pay for all permits anc/or inspections, and comply with all laws, ordinances, regulations and building code requirements applicable to the work required herein. Demages, penalties, and/or lines imposed on the County or an awarded bidder for falture to obtain and maintain required licenses, certifications, permits and/or inspections shall be borne by said awarded bidder.

1.15. SUBCONTRACTING

Unless otherwise specified in this Bid Solicitation, the successful Bidder shall not subcentrant any portion of the work without the prior written consent of the County. The ability to subcentract may be further limited by the Special Conditions. Subcontracting without the prior consent of the County may result in termination of the contract for default. When Subcontracting is allowed the Bidder shall comply with County Resolution No. 1834-93, Section 10-34 of the County Code and County Ordinance No. 37-35.

1.16. ASSIGNMENT

The successful Bidder shall not assign, transfer, hypothecate, or otherwise dispose of this contract, including any rights, title or interest thorain, or its power to execute such contract to any person, company or corporation without the prior written consent of the County.

1.17, DELIVERY

Unless otherwise specified in the Bird Solicitation, prices quoted shall be F.O.R. Destination. Freight shall be included in the proposed price.

1.18, RESPONSIBILITY AS EMPLOYER

The employee(e) of the expossible Bidder shall be considered to be at all times its employee(e), and not an employee(e) or agent(e) of the County or any of its departments. The successful Bidder shall provide competent and physically employee(e) capable of performing the work as required. The County may require the successful Bidder to remove any employee it deems unacceptable. All employees of the successful Bidder shall wear proper identification.

1.19, INDEMNIFICATION

The successful Bidder shall indemnify and hold harmless the County and its officers, employees, agents and instrumentalities from any and all liability, losses or damages, including atterney's fees and costs of detense, which the County or its officers, employees, agents or instrumentalities may incur as a result of claims, damande, suits, causes of actions or proceedings of any kind or nature arising out of, relating to or resulting from the performance of the agreement by the successful Bidder or its employees, agents, servants, partners, phrepipals or subcontractors. The successful Bidder shall pay all claims suits or actions of any kind or nature in the name of the County, where applicable, including appellate proceedings, and shall pay all costs, judgments, and attemey's fees which may be incurred thereon. The successful Bidder expressly understands and agrees that any insurance protection required by this Agreement or otherwise provided by the successful Bidder supressly understands and responsibility to indemnify, keep and save harmless and defend the County or its officers, employees, agents and instrumentalities as herein provided.

1,20, COLLUSION

A contractor recommended for award as the result of a competitive solicitation for any County purchases of supplices, materials and services (Including professional services, other than professional services, other than professional architoctural, engineering and other services subject to Sec. 2-10.4 and Sec. 287.055 Fla Stats.), purchase, lease, permit, concession or management agreement shall, within five (5) business days of the tiling of such recommendation, submit an attitidabit under the penalty of perjury, on a form provided by the County: stating either that the contractor is not related to any of the other parties bidding in the compositive solicitation or identifying all related parties, as defined in this Section, which bid in the solicitation; and attesting that the contractor's proposal is genuine and not sham or collusive or made in the interest or on behalf of any porson net therein named, and that the contractor's proposal is genuine and not sham or collusive or made in the interest or on behalf of any porson net therein named, and that the contractor has not, directly or indirectly, induced or solicited any other proposer to put in a sham proposal, or any other porson, tim, or corporation to retrain from proposing, and that the proposer has not in any manner sought by collusion to secure to the proposar as edvertage over any other proposar. In the event a recommended contractor shall be presumed to be collusive and the recommended contractor shall be inaligible for award unless that presumption is rebutted in accordance with the provisions of Sec. 2-8.1.1. Any person or entity that falls to submit the required afficiavit shall be inaligible for contract

BID NO.: 9695-0/18

- A. The Collecton Afficiavit will be included in all solicitations and will be requested from bidders/proposers once bids/proposals are received and evaluated.
- B. Failure to provide a Collusion Affidavit within 5 business days siter the recommendation to award has been filed with the Clerk of the Board shall be cause for the contrastor to forfelt their bid hand.

1,21, MODIFICATION OF CONTRACT

The contract may be modified by mutual consent, in writing through the Issuance of a modification to the contract, purchase order, change order or award sheet, as appropriate.

1.22. TERMINATION FOR CONVENIENCE

The County, at its sole discretion, reserves the right to terminate this contract without cause upon thirty (30) days written notice. Upon receipt of such notice, the successful Bidder shall not Incur any additional costs under this contract. The County shall be flable only for reasonable costs incurred by the successful Bidder prior to notice of termination. The County shall be the sole judge of 'reasonable costs.'

1.23. TERMINATION FOR DEFAULT

The County reserves the right to terminate this contract, in part or in whole, or place the vendor on probation in the event the successful Bidder fells to parform in accordance with the terms and conditions stated fierkin. The County further reserves the right to suspend or dobor the successful Bidder in accordance with the appropriate County ordinances, resolutions and/or administrative orders. The vendor will be notified by letter of the County's intent to terminate. In the event of termination for detault, the County's intent to terminate. In the event of termination for detault, the County may procure the required goods and/or services from any source and use any mailtoni deemed in its best interest. All re-procurement cost shall be home by the successful Bidder.

1.24, FRAUD AND MISREPRESENTATION

Pursuant to Section 2-8.4.1 of the Miami-Dade County Code, any individual, corporation or other entity that attempts to meet its contractual obligations with the County through fraud, marrepresentation or material misstatement, may be determed for up to five (6) years. The County as a further samplion may terminate or cancel any other contracts with such individual, corporation or entity. Such individual or criticy shall be responsible for all direct or indirect costs associated with termination or cancellation, including attorney's foces.

1,25. ACCESS TO RECORDS

The County reserves the right to require the Contracer to submit to an audit by Audit and Management Services, the Commission Auditor, or other auditor of the County's choosing at the Contractor's expense.

The Contractor shall provide access to all of its records, which relate directly or indirectly to this Agreement at its place of business cluring regular business hours. The Contractor shall retain all records pertaining to this Agreement and upon request make them available to the County for three years following expiration of the Agreement. The Contractor agrees to provide such assistance as may be necessary to facilitate the review or audit by the County to ensure compliance with applicable agreement and forestite transfer. applicable accounting and financial standards.

1.26 OFFICE OF THE INSPECTOR GENERAL

1.26 OFFICE OF THE INSPECTOR GENERAL.

Mami-Dade County has established the Office of the Inspector General, which is authorized and empowered to review past, present, and proposed County and Public Heelth Trust programs, contracts, transactions, accounts, records and programs. The Inspector General (IG) has the power to subpoens witnesses, administer oaths, require the production of records and monitor existing projects and programs. The Inspector General may, on a random basis, perform audits on all County contracts. The cost of random audits shall be incorporated into the contract price of all centracts and shall be one quarter (1/4) of one (1) percent of the contract price, except as otherwise provided in Section 2-1078 of the County Code.

1.27 PRE-AWARD INSPECTION

The County may conduct a pre-award Inspection of the bldder's stie or hold a pre-award qualification heading to determine if the bidder is capable of performing the requirements of this bid solicitation.

1,28 PROPRIETARY/CONFIDENTIAL INFORMATION

Proposers are hereby notified that all information submitted as part of, or in support of bid submittels will be available for public inspection after opening of bids in compliance with Chapter 119 of the Florida Statutes; popularly known as the "Public Record Law." The proposer shall not submit any information in response to this solicitation, which the proposer exesiders to be a trade secret, proprietary or confidential. The submission of any information to the County in connection with this solicitation shall be deemed conclusively to be a waiver of any trade asoret or other protection, which would otherwise be available to the proposer. In the event that the proposer submits information to the County in violation of this restriction, either inadvertently or intentionally and clearly identifies that information in the bid as protected or confidential, the County may, in its sole discretion, either (a) communicate with the Proposer in writing in an effort to obtain the Proposers withdrawal of the confidentiality restriction or (b) endeavor to rectact and return that information to the Proposer es quickly as possible, and if appropriate, evaluate the balance of the proposal. The reduction or return of Information pursuant to this clause may render a ргорова! пол-гевропsive.

1.29. HEALTH INSURANCE PORTABILITY AND ACCOUNTABILITY ACT (HIPAA)

Any person or entity that performs or assists Miami-Dade County with a function or activity involving the use or disclosure of "individually identifiable health information (IIH) and/or Protected Health Information (PHI) shall comply with the Health Insurance Pentability and Accountability Act (HIPAA) of 1996 and the Miami-Dade County Privacy Standards Administrative Order. HIPAA mandates for privacy, security and electronic transfer standards that include but are not fimited to:

- Use of information only for performing services required by the contract or as required by law; Use of appropriate saleguards to prevent non-permitted
- disclosures; Reporting to Mami-Dade County of any non-permitted use or disclosure; ₹.
- Assurances that any agents and subcontractors agree to the same restrictions and conditions that apply to the Bilden/Proposer and reasonable assurances that IIHVPHI will be held confidential; Making Protected Health Information (PHI) available to the
- Making Fill available to the customer for review and emendment; and incorporating any amendments requested by the customer:

Making PHI available to Miami-Dade County for an accounting of disclosures; and

BID NO.: 9695-0/18

Making internal practices, books and records related to PHI available to Miami-Dade County for compliance audis.

PHI shall maintain its proteoted status regardless of the form and method of transmission (paper records, and/or electronic transfer of data). The Bidder/ Proposer must give its customers written police of ils privacy information practices including specifically, a description of the types of uses and disclosures that would be made with protected

1.30, CHARTER COUNTY TRANSIT SYSTEM SALE SURTAX

When precede from the Charler County Transit System Sales States levied pursuant to Section 29.121 of the Code of Miami-Dade County are used to pay for all or some part of the cost of this contraot, no award for those perions of a Blanket Purchase Order (BPO) utilizing Charler County Transit System Sales Surrax funds as part of a multidepartment contract, nor a contract utilizing Chariter County Transit System Suitax funds shall be effective and thereby give rise to a System Surtex funds shall be effective and thereby give rise to a contractual relationship with the County for purchases unless and until both the following have occurred: 1) the County Commission awards the contract, and such award becomes final (either by expiration of 10 days rifer such award without vote by the triayor, or by Commission overrids of a veto); and, 2) either, 1) the Citizens' independent Transportation Trust (CITT) has approved inclusion of the Surtex funding on the contract, or, ii) in response to the CITT's disapproved, the County Commission reaffirms award of the contract by two-thirds write of the Commission's resmbership and such reaffirmation. (2/3) vote of the Commission's membership and such reaffirmation becomes final. Notwithstanding the other provisions of Section 1.30. award of an allocation for services in support of the CITT's oversight which does not exceed \$1000 will not require Commission or CITT approvel and may be awarded by the Executive Director of the OCITT

1.31 LOBBYIST CONTINGENCY FEES

A) In accordance with Section 2-11.1(a) of the Code of Miami-Dade County, after May, 16, 2009, no person may, in whole or in part, pay, give or agree to pay or give a contingency les to enother person. No person may, in whole or in part, receive or agree to receive a

B) A contingency fee is a fee, bonus, commission or non-monetary benefit as compensation which is dependent on or in any way contingent upon the passage, defeat, or modification of: 1) any ordinance, resolution, action or decision of the County Commission; 2) any action, decision or recommendation of the County Mayor or any County board or committee; or 3) any action, decision or recommendation of any County personnel during the time period of the entire decision-making process regarding such action, decision or recommendation which forseeably will be heard or reviewed by the County Commission or a County board or committee.

1.32 COMMISSION AUDITOR - ACCESS TO RECORDS

Pursuant to Ordinance No. 03-2, all vendors receiving an award of the contract resulting from this solicitation will grant access to the Commission Auditor to all financial and performance related records, properly, and equipment purchased in whole or in part with covernment funds.

BID NO.: 9695-0/18

SECTION 2

SPECIAL CONDITIONS

TRAFFIC POLES, MAST HEADS, AND L.E.D. SIGNALS AND HOUSINGS

2.1 PURPOSE TO ESTABLISH A CONTRACT FOR THE COUNTY

The purpose of this solicitation is to establish a contract for the purchase of Traffic Signal Poles, Mast Heads, and Street Light Poles and L.E.D Pedestrian Signals and Housings for the Miami-Dade County Public Works and Waste Management Department on an as needed basis.

2.2 <u>SMALL BUSINESS CONTRACT MEASURES FOR SOLICITATIONS GREATER THAN</u> \$50,000 (Bid Preference)

A Small Business Enterprise (SBE) bid preference applies to this solicitation.

A 10% percent bid preference shall apply to awards valued up to \$1 million and a 5% percent bid preference shall apply to awards greater than \$1 million. A SBE/Micro Business Enterprise must be certified by the Sustainability, Planning, and Economic Enhancement Department, Small Business Development (SBD) Division for the type of goods and/or services the Enterprise provides in accordance with the applicable Commodity Code(s) for this solicitation. For certification information, contact the Department of Small Business Development at 305-375-CERT (2378) or access Miami-Dade County - Small Business Development - Certification Process

The SBE/Micro Business Enterprise must be certified by bid submission deadline, at contract award and for the duration of the contract to remain eligible for the preference.

2.3 PRE BID CONFERENCE INTENTIONALLY OMITTED

2.4 TERM OF CONTRACT FIVE (5) YEARS

This contract shall commence on the first calendar day of the month succeeding approval of the contract by the Board of County Commissioners, or designee, unless otherwise stipulated in the Notice of Award Letter which is distributed by the Internal Services Department, and contingent upon the completion and submittal of all required bid documents. The contract shall expire on the last day of the last month of the contract term.

2.5 OPTION TO RENEW INTENTIONALLY OMITTED

2.6 METHOD OF AWARD TO MULTIPLE BIDDERS BY GROUP

Award of this contract will be made to up to (3) lowest priced responsive, responsible bidders on a group-by-group basis. To be considered for award by group, the bidder shall offer prices for all items within a given group. The County will then select the bidders for award for each group by totaling the unit prices for all of the items within each group. If a bidder fails to submit an offer for all items within the group, its offer for that specific group may be rejected.

BID NO.: 9695-0/18

SPECIAL CONDITIONS

TRAFFIC POLES, MAST HEADS, AND L.E.D. SIGNALS AND HOUSINGS

While the method of award prescribes the method for determining the three (3) lowest responsive, responsible bidders, the County will award this contract to the designated lowest bidder as the primary awarded bidder, and will award this contract to the designated second lowest bidder as the secondary awarded bidder, and will award this contract to the designated third lowest bidder as tertiary respectively. If the County exercises this right, the primary awarded bidder shall have the primary responsibility to initially perform the service or deliver the goods identified in this contract. If the primary awarded bidder fails to perform it may be terminated for default and the County shall have the option to seek the identified goods or services from the secondary awarded bidder. If the secondary awarded bidder fails to perform it may be terminated for default and the County shall have the option to seek the identified goods or service from the tertiary awarded bidder.

Award to multiple bidders is made for the convenience of the County and does not exempt the primary awarded bidder from fulfilling its contractual obligations. Failure of any awarded bidder to perform in accordance with the terms and conditions of the contract may result in the awarded bidder(s) being deemed in breach of contract. The County may terminate the contract for default and charge the awarded bidder re-procurement costs, if applicable.

The groups to be awarded are as follows:

Group A: Traffic Signal Poles, Mast Heads and Street Light Poles

Group B: L.E.D. Pedestrian Signals and Housings

2.7 PRICES SHALL BE FIXED WITH ADJUSTMENTS

Prior to the end of the initial one (1) year period, and at each anniversary thereafter, awarded bidders shall have the option to submit a written request for a price adjustment to the County based on changes in the following price indexes:

Group A

Producer Price Index (PPI) Series Id. PCU3312 Steel Product MFG From Purchased Steel

Group B

Producer Price Index (PPI) Series Id. PCU3313 Alumina & Aluminum Production & Processing

2.7.1 It is the awarded bidder's responsibility to request any pricing adjustment under this provision. For any adjustment to commence on the anniversary, the awarded bidder request for adjustment should be submitted 90 days prior to expiration of the then current contract term for all groups. The awarded bidder adjustment request should not be in excess of the relevant pricing index change.

BID NO.: 9695-0/18

SPECIAL CONDITIONS

TRAFFIC POLES, MAST HEADS, AND L.E.D. SIGNALS AND HOUSINGS

If no adjustment request is received from the awarded bidder, the County will assume that the awarded bidder has agreed that the next term will remain at the current price. Any adjustment request received after the commencement of a new year may not be considered.

The County reserves the right to reject any price adjustments submitted by the awarded bidder and/or to not continue the contract based on such price adjustments. Continuation of the contract beyond the initial term, and any anniversary term, is a County prerogative, and not a right of the awarded bidder. This prerogative will be exercised only when such continuation is clearly in the best interest of the County.

The County reserves the right to extend this contract for up to one hundred-eighty (180) calendar days beyond the current contract term and will notify the awarded bidder in writing of the extension. This contract may be extended beyond the initial one hundred-eighty (180) calendar day extension period by mutual agreement between the County and the awarded bidders, upon approval by the Board of County Commissioners.

2.8 <u>EXAMINATION OF COUNTY FACILITIES AND INSPECTION OF COUNTY EQUIPMENT INTENTIONALLY OMITTED</u>

2.9 EQUAL PRODUCT CAN BE CONSIDERED UPON RECEIPT OF SPECIFIED DATA

The manufacturer's name, brand name and/or model number information contained in this solicitation are being used for the sole purpose of establishing the minimum requirement of level of quality, standard of performance, and design and is in no way intended to prohibit the offer of another manufacturer's items of equal material unless otherwise indicated on the Bid/Proposal Submission Form.

This specific solicitation requires submission of product information documentation sheets to enable County evaluation of "equal" products.

If an "equal" product may be considered by the County in accordance with the Bid/Proposal Submission Form, the unit shall be equal in quality and standards of performance to the item specified in the solicitation. Where an "or equal" item is offered, and product information sheets are required, the initial offer must be accompanied with two (2) complete sets of product information sheets (such as factory specifications, standard manufacturer information sheets, catalogues, and brochures). Also for product information submittals, all supporting documentation submitted by the offeror must in total meet the required specifications set forth in this solicitation. Where the standard product literature

BID NO.: 9695-0/18

SECTION 2

SPECIAL CONDITIONS

TRAFFIC POLES, MAST HEADS, AND L.E.D. SIGNALS AND HOUSINGS

submitted with the offer provides information that does not comply with the specifications, the offeror shall state, in an official letter on corporate letterhead as part of their initial offer, the differences between the item they are specifically offering, and the equipment described by the standard product literature, to substantiate compliance to all of the specifications set forth in this solicitation. In such cases, any offer submitted with standard product literature but without the letter explaining compliance will result in the rejection of the offer for not meeting the solicitation specifications.

If samples of all "or equal" items bid are required for evaluation, such items are to be provided at no cost to the County, and should be submitted with the initial offer, or at the time of specific request. Failure to meet this requirement may result in your offer being rejected.

The County shall be sole judge of equality, based on the best interests of the County, and its decision in this regard shall be final. Items labeled "No Substitute" on the County's Bid/Proposal Submission Form are the only products that will be accepted under this solicitation.

- 2.10 <u>LIQUIDATED DAMAGES INTENTIONALLY OMITTED</u>
- 2.11 <u>INDEMNIFICATION AND INSURANCE INTENTIONALLY OMITTED</u>
- 2.12 BID GUARANTY INTENTIONALLY OMITTED
- 2.13 PERFORMANCE BOND INTENTIONALLY OMITTED
- 2.14 CERTIFICATIONS INTENTIONALLY OMITTED
- 2.15 METHOD OF PAYMENT INVOICES FOR COMPLETED PURCHASES

The awarded bidder shall submit an invoice(s) to the County user department(s) after purchase has been completed, whether the specific item(s) were picked up by authorized County personnel or delivered to the site by the awarded bidder. In addition to the general invoice requirements set forth below, the invoices shall reference the corresponding delivery ticket number or packing slip number that was signed by an authorized representative of the County user department at the time the items were delivered and accepted. Submittal of these periodic invoices shall not exceed thirty (30) calendar days from the delivery of the items. Under no circumstances shall the invoices be submitted to the County in advance of the delivery and acceptance of the items.

All invoices shall contain the following basic information:

SPECIAL CONDITIONS

TRAFFIC POLES, MAST HEADS, AND L.E.D. SIGNALS AND HOUSINGS

- I. Awarded bidder Information:
 - The name of the business organization as specified on the contract between Miami-Dade County and awarded bidder

BID NO.: 9695-0/18

- Date of invoice
- Invoice number
- Awarded bidder's Federal Identification Number on file with Miami-Dade County
- II. County Information:
 - Miami-Dade County Release Purchase Order or Small Purchase Order Number
- III. Pricing Information:
 - Unit price of the goods, services or property provided
 - Extended total price of the goods, services or property
 - Applicable discounts
- IV. Goods or Services Provided per Contract:
 - Description
 - Quantity
- V. Delivery Information:
 - Delivery terms set forth within the Miami-Dade County Release Purchase Order
 - Location and date of delivery of goods, services or property

2.16 SHIPPING TERMS F.O.B. DESTINATION

All awarded bidders shall quote prices based on F.O.B. Destination and shall hold title to the goods until such time as they are delivered to, and accepted by, an authorized County representative.

2.17 <u>DELIVERY REQUIREMENTS</u>

The awarded bidder shall make deliveries within ninety (90) calendar days for group A and forty-five (45) calendar days for group B after the date of the order. All deliveries shall be made in accordance with good commercial practice and all required delivery timeframes shall be

TECHNICAL SPECIFICATION

BID NO.: 9695-0/18

Traffic Poles, Mast Heads, and L.E.D. Signals & Housings

adhered to by the awarded bidder(s); except in such cases where the delivery will be delayed due to acts of nature, strikes, or other causes beyond the control of the awarded bidder. In these cases, the awarded bidder shall notify the County of the delays in advance of the original delivery date so that a revised delivery schedule can be appropriately considered by the County.

Should the awarded bidder(s) to whom the contract(s) is awarded fail to deliver in the number of days stated above, the County reserves the right to cancel the contract on a default basis after any back order period that has been specified in this contract has lapsed. If the contract is so terminated, it is hereby understood and agreed that the County has the authority to purchase the goods elsewhere and to charge the incumbent awarded bidder with any re-procurement costs. If the awarded bidder fails to honor these re-procurement costs, the County may terminate the contract for default.

Certain County employees may be authorized in writing to pick-up materials under this contract. Awarded bidder shall require presentation of this written authorization. The awarded bidder shall maintain a copy of the authorization. If the awarded bidder is in doubt about any aspect of material pick-up, awarded bidder shall contact the appropriate user department to confirm the authorization.

2.17.1 DELIVERY TIMES SPECIFIED FOR GROUP A

The awarded bidder shall only be authorized to deliver items between the hours of 8:30 A.M. to 2:30 P.M Monday through Friday, except for holidays. A twenty-four (24) hours notice of delivery should be given to the County contact person James Jackson at (305) 592-3580 Ext 265.

2.18 BACK ORDER DELAYS IN DELIVERY SHALL NOT BE ALLOWED

The County shall not allow any late deliveries attributed to product back order situations under this contract. Accordingly, the awarded bidder is required to deliver all items to the County within the time specified in this solicitation and resultant contract; and no grace period on account of back order situations shall be honored, unless written authorization is issued by the user department, and a new delivery date is mutually established. In the event that the awarded bidder fails to deliver the products within the time specified, the County reserves the right to cancel the order, seek the items from another awarded bidder and charge the incumbent awarded bidder for any re-procurement costs. If the awarded bidder fails to honor these re-procurement costs, the County may terminate the contract for default.

2.19 WARRANTY SHALL BE ONE YEAR FROM DATE OF ACCEPTANCE

A. Type of Warranty Coverage Required

In addition to all other warranties that may be supplied by the awarded bidder, the awarded bidder shall warrant its products and/or service against faulty labor and/or defective material, for a minimum period of one (1) year after the date of acceptance of the labor, materials and/or equipment by the County. This warranty requirement

SPECIAL CONDITIONS

TRAFFIC POLES, MAST HEADS, AND L.E.D. SIGNALS AND HOUSINGS

shall remain in force for the full one (1) year period; regardless of whether the awarded bidder is under contract with the County at the time of defect. Any payment by the County on behalf of the goods or services received from the awarded bidder does not constitute a waiver of these warranty provisions.

BID NO.: 9695-0/18

B. Correcting Defects Covered Under Warranty

The awarded bidder shall be responsible for promptly correcting any deficiency, at no cost to the County, within (10) calendar days after the County notifies the awarded bidder of such deficiency in writing. If the awarded bidder fails to honor the warranty and/or fails to correct or replace the defective work or items within the period specified, the County may, at its discretion, notify the awarded bidder, in writing, that the awarded bidder may be debarred as a County bidder and/or subject to contractual default if the corrections or replacements are not completed to the satisfaction of the County within 15 calendar days of receipt of the notice. If the awarded bidder fails to satisfy the warranty within the period specified in the notice, the County may (a) place the awarded bidder in default of its contract, and/or (b) procure the products or services from another awarded bidder and charge the awarded bidder for any additional costs that are incurred by the County for this work or items; either through a credit memorandum or through invoicing.

2.20 CONTACT PERSONS

For any additional information regarding the terms and conditions of this solicitation and resultant contract, contact: Mary Hammett, at (305)375-5471 email - mhammet@miamidade.gov

2.21 COUNTY USER ACCESS PROGRAM (UAP) FEE

USER ACCESS FEE

Pursuant to Section 2-8.10 of the Miami-Dade County Code, this contract is subject to a user access fee under the County User Access Program (UAP) in the amount of two percent (2%). All sales resulting from this contract, or any contract resulting from this solicitation and the utilization of the County contract price and the terms and conditions identified herein, are subject to the two percent (2%) UAP. This fee applies to all contract usage whether by County Departments or by any other governmental, quasi-governmental or not-for-profit entity.

The awarded bidder providing goods or services under this contract shall invoice the contract price and shall accept as payment thereof the contract price less the 2% UAP as full and complete payment for the goods and/or services specified on the invoice. The County shall retain the 2% UAP for use by the County to help defray the cost of the procurement program. Awarded bidder participation in this invoice reduction portion of the UAP is mandatory.

BID NO.: 9695-0/18

SPECIAL CONDITIONS

TRAFFIC POLES, MAST HEADS, AND L.E.D. SIGNALS AND HOUSINGS

JOINT PURCHASE

Only those entities that have been approved by the County for participation in the County's Joint Purchase and Entity Revenue Sharing Agreement are eligible to utilize or receive Miami-Dade County contract pricing, terms, and conditions. The County will provide to approved entities a UAP Participant Validation Number. The awarded bidder must obtain the participation number from the entity prior to filling any order placed pursuant to this section. Awarded bidder participation in this joint purchase portion of the UAP, however, is voluntary. The awarded bidder shall notify the ordering entity, in writing, within 3 work days of receipt of an order, of a decision to decline the order.

For all ordering entities located outside the geographical boundaries of Miami-Dade County, the successful awarded bidder shall be entitled to ship goods on an "FOB Destination, Prepaid and Charged Back" basis. This allowance shall only be made when expressly authorized by a representative of the ordering entity <u>prior</u> to shipping the goods.

Miami-Dade County shall have no liability to the awarded bidder for the cost of any purchase made by an ordering entity under the UAP and shall not be deemed to be a party thereto. All orders shall be placed directly by the ordering entity with the awarded bidder and shall be paid by the ordering entity less the 2% UAP.

AWARDED BIDDER COMPLIANCE

If an awarded bidder fails to comply with this section, that awarded bidder may be considered in default by Miami-Dade County in accordance with Section 1, Paragraph 1.23 of this contract solicitation and the resulting contract.

2.22 LOCAL CERTIFIED SERVICE - DISABLED VETERAN'S BUSINESS PREFERENCE

In accordance with Section 2-8.5.1 of the Miami-Dade County Code, a Local Certified Service-Disabled Veteran Business Enterprise (VBE) that submits a bid for a contract shall receive a bid preference of five percent of the price bid. A VBE is a firm that is a) a local business pursuant to Section 2.8.5 of the Code of Miami-Dade County and b) prior to proposal submittal is certified by the State of Florida Department of Management Services as a service-disabled veteran business enterprise pursuant to Section 295.187 of the Florida Statutes. This preference will only be used for evaluating and awarding the bids and shall not affect the contract price. In procurements where Small Business Enterprises (SBE) measures are being applied, a VBE who is also an SBE shall not receive the veteran's preference provided in this section and shall be limited to any applicable SBE preferences. At the time of bid or proposal submission, the awarded bidder must affirm in writing its compliance with the certification requirements of Section 295.187 of the Florida Statutes and submit this affirmation and a copy of the actual certification along with the bid or proposal submission.

BID NO.: 9695-0/18

SPECIAL CONDITIONS

TRAFFIC POLES, MAST HEADS, AND L.E.D. SIGNALS AND HOUSINGS

2.23 PRIMARY SECONDARY AND TERTIARY, AWARDED BIDDER DESIGNATION

While the method of award identified in Section 2.6 of the solicitation prescribes the method of determining the lowest responsive, responsible bidders; the County will award this contract to the designated lowest bidder as the primary awarded bidder and will award this contract to the designated second bidder as the secondary awarded bidder, and the third lowest bidder as tertiary awarded bidder respectively. If the County exercises this right, the primary awarded bidder shall be given the first opportunity to perform the service or deliver the goods identified in this contract. If the primary awarded bidder declines this opportunity, the county shall seek the identified goods and services from the secondary awarded bidder, and if the secondary awarded bidder declines this opportunity the county shall seek the identified good and servers from the tertiary awarded bidder.

2.24 DEMONSTRATION OF EQUIPMENT MAY BE REQUIRED DURING EVALUATION

After receipt of offers by the County, the bidders may be required to demonstrate their specifically offered equipment to County personnel, at no separate cost. The purpose of this demonstration is to observe the equipment in an operational environment and to verify its capability, suitability, and adaptability in conjunction with the performance requirements stipulated in this solicitation. If a demonstration is required, the County will notify the bidder of such in writing and will specify the date, time and location of the demonstration. If the bidder fails to perform the demonstration on the specified date stipulated in the notice, the County may elect to reject that bidder's offer, or to re-schedule the demonstration, whichever action is determined to be in the best interests of the County. The County shall be the sole judge of the acceptability of the equipment in conformance with the specifications and its decision shall be final.

The equipment used for the demonstration shall be the same as the manufacturer's model identified in the awarded bidder's offer. Accordingly, the equipment used in the demonstration shall create an express warranty that the actual equipment to be provided by the awarded bidder during the contract period shall conform to the equipment used in the demonstration. The awarded bidder shall be required to provide adequate restitution to the County, in the manner prescribed by the County, if this warranty is violated during the term of the contract.

2.25 INFORMATION SHEETS SHALL BE SUBMITTED FOR EACH ITEM OFFERED

The offer shall be accompanied with two (2) complete sets of factory information sheets (specifications, brochures, etc.) for each item offered by the bidder. Failure to meet this requirement may result in rejection of the offer. The County's decision as to quality of the product based on submission of the information sheets shall be final.

BID NO.: **9695-0/18**

SECTION 2

SPECIAL CONDITIONS

TRAFFIC POLES, MAST HEADS, AND L.E.D. SIGNALS AND HOUSINGS

2.26 MATERIALS SHALL BE NEW AND WARRANTED AGAINST DEFECTS

The awarded bidder hereby acknowledges and agrees that all materials, except where recycled content is specifically requested, supplied by the awarded bidder in conjunction with this solicitation and resultant contract shall be new, warranted for their merchantability, and fit for a particular purpose. In the event any of the materials supplied to the County by the awarded bidder are found to be defective or do not conform to specifications: (1) the materials may be returned to the awarded bidder at the awarded bidder's expense and the contract cancelled or (2) the County may require the awarded bidder to replace the materials at the awarded bidder's expense.

2.27 STOCK LEVELS SHALL BE MAINTAINED BY AWARDED BIDDER

The successful awarded bidder(s) shall ensure that adequate stock levels are maintained at its place of business in order to assure the County of prompt delivery. If the delivery terms specified in the Solicitation are not fulfilled by the awarded bidder, the County reserves the right to cancel the order, purchase the goods through another awarded bidder, and charge the Awarded bidder for any reprocurement costs incurred by the County.

2.28 COMPLIANCE WITH FEDERAL STANDARDS

All items to be purchased under this contract shall be in accordance with all governmental standards, to include, but not be limited to, those issued by the Occupational Safety and Health Administration (OSHA), the National Institute of Occupational Safety Hazards (NIOSH), and the National Fire Protection Association (NFPA).

2.29 ACCEPTANCE OF PRODUCT BY THE COUNTY

The product(s) to be provided hereunder shall be delivered to the County, and maintained if applicable to the contract, in full compliance with the specifications and requirements set forth in this contract. If an awarded bidder-provided product is determined to not meet the specifications and requirements of this contract, prior either to acceptance or upon initial inspection, the item will be returned, at awarded bidder expense, to the awarded bidder. At the County's own option, the awarded bidder shall either provide a direct replacement for the item, or provide a full credit for the returned item. The awarded bidder shall not assess any additional charge(s) for any conforming action taken by the County under this clause.

2.30 PATENTS AND ROYALTIES

The awarded bidder, without exception, shall indemnify and save harmless the County and its employees from liability of any nature or kind, including cost and expenses for, or as a result of, any copyrighted, patented, or unpatented invention, process, or article manufactured by the awarded bidder. The awarded bidder has no liability when such claim is solely and exclusively due to the combination, operation, or use of any article supplied hereunder with equipment or data not supplied by awarded bidder, or is based solely and exclusively up on the County's alteration of the article.

BID NO.: 9695-0/18

SPECIAL CONDITIONS

TRAFFIC POLES, MAST HEADS, AND L.E.D. SIGNALS AND HOUSINGS

The purchaser will provide prompt written notification of a claim of copyright or patent infringement.

Further, if such a claim is made or is pending, the awarded bidder may, at its option and expense, procure for the purchaser the right to continue use of, replace or modify the article to render it non-infringing. (If none of the alternatives are reasonably available, the County agrees to return the article on request to the contractor and receive reimbursement, if any, as may be determined by a court of competent jurisdiction.) If the awarded bidder uses any design, device, or materials covered by letters, patent or copyright, it is mutually agreed and understood without exception that the contract prices shall include all royalties or cost arising from the use of such design, device, or materials in any way involved in the work.

2.31 PURCHASE OF OTHER ITEMS NOT LISTED WITHIN THIS SOLICITATION BASED ON PRICE QUOTES

While the County has listed all major items within this solicitation which are utilized by County departments in conjunction with their operations, there may be similar items that must be purchased by the County during the term of this contract. Under these circumstances, a County representative will contact the primary awarded bidder to obtain a price quote for the similar items. If there are multiple awarded bidders on the contract, the County representative may also obtain price quotes from these awarded bidders. The County reserves the right to award these similar items to the primary contract awarded bidder, another contract awarded bidder based on the lowest price quoted, or to acquire the items through a separate solicitation.

2.32 AVAILABILITY OF CONTRACT TO OTHER COUNTY DEPARTMENTS AND GOVERNMENTAL AGENCIES

Although this Solicitation is specific to a County Department, it is hereby agreed and understood that any County department or governmental agency may avail itself of this contract and purchase any and all items specified herein from the successful awarded bidder(s) at the contract price(s) established herein. Under these circumstances, a separate purchase order shall be issued by the County, which identifies the requirements of the additional County department(s) or agency (ies).

2.33 SPECIFICATION DRAWINGS FOR GROUP A

Specification for Traffic Signal Poles and Street Light Poles have been approved by Miami-Dade county Public Works on September 18, 2006 and shall become part of this Invitation to Bid, See plans on page 15 through 26.

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

3.0 SCOPE OF WORK

These specifications cover the acquisition of Traffic Signal Poles, Mast Arms, and Street Light Poles, and L.E.D Signals & Housings for the Miami-Dade Public Works and Waste Management Department on an as needed basis. This solicitation has two (2) specifications Group - A Traffic Poles, Mast Heads and Group B L.E.D. Signals & Housings.

Group-A

3.1 Specification for Group - A Traffic Signal Poles, Mast Arms, and Street Light Poles

Tapered upright poles and mast arms shall be round or polygonal (minimum 12 sides) in cross-section, fabricated from Society of Automotive engineers (SAE) 1020 steel processed to achieve a minimum yield stress of 55,000 Pound per Square Inches (PSI) and conforming to the requirements of American Society of Testing Materials (ASTM) A595 (Grade A), (Linear Taper.14 in/ft.) for poles of up to 13" and A572 Grade 60 for 15" poles.

- 3.1.1 Cast anchor base and handhole frame ASTM A72 Grade 65-35.
- **3.1.2** Hand hole cover plate-11 gauge steel SAE 1015.
- **3.1.3** Cast aluminum pole top aluminum alloy #43
- **3.1.4** Anchor bolts to be high strength steel having 55,000 PSI minimum yield stress 95,000 PSI ultimate conforming to ASTM. See note on page #15, "sheet 1 of 5" Table of Materials Specification.
- **3.1.5** All nuts and bolts less than 5/8" diameter to be passivated stainless steel American Iron and Steel Institute (AISI)-300 series, commercial grade.
- **3.1.6** All other nuts and bolts 5/8" diameter and over shall conform to ASTM A307 and be galvanized in accordance with ASTM A 153 specification.
- 3.1.7 Welding rod ASTM A233 Class E 60XX or E 70 XX.
- 3.1.8 Galvanizing of all steel components shall conform to ASTM A 123 specification special attention should be given to paragraph 9A which covers appearance of the galvanized surface. Surface must have reasonable uniformity of appearance, with no excessive buildup of dross of flux, and no uncoated or black spots. Failure to comply with these requirements will be cause for rejection of the materials.
- **3.1.9** The steel plate of Traffic Arm connection to upright pole must meet the ASTM standard A36. See chart on "Sheet 4 of 5" page #18.
- 3.1.10 Up right pole and mast arm sizes are based upon steel as described in specification. If cross-section other than round is used or if steel other than 55,000 PSI is to be used, bending strength at least equivalent to tube sizes show must be provided by adjusting wall

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP-A

thickness, for pole shapes other than round, this minimum strength must be provide through the weakest pole cross-section.

- **3.1.11** Interchangeability on bases must be maintained and bolt circle diameter and anchor bolt sizes show must remain the same cast bases are preferred, alternate types must provide nut covers for neat appearance.
- 3.1.12 All mast arms installation shall use a universal swivel between disconnect and mast arm.
- **3.1.13** A minimum of eighteen (18) signal Poles and Mast Arms will be ordered on each shipment.

NOTE: See Attachment A for copies of specification drawings.

3.1.14 Street Light Poles Minimum Requirement

These Street Light Poles must meet the standard specification provided on the attached plans. Any deviation will not be accepted unless authorized in writing by the Miami-Dade County Public Works and Waste Management Department, Street Light Coordinator.

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

BID NO.: 9695-0/18

GROUP B

3. 2 Specification for Group B L.E.D. Signals and Housing

Specification of the modules for L.E.D Signals and Housing can be found listed under following appendix:

- Appendix A L.E.D Pedestrian Signal Hand/Person Module
- Appendix B L.E.D Pedestrian Signal Hand/Person countdown Module

BID NO.: 9695-0/18

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix A

Specification

MIAZH-DADE COUNTY PUBLIC WORKS DEPARTMENT TECHNICAL SPECIFICATION

> Led Fedestrian Signal, Handferson Module (16" x 18" Housing)

General Overview

- The LED pedestrian modules shall be designed to be lumished in a standard atuminium pedestrian signal head housing or as a retrofit replacement for satisfing modules mean or similar modules and shall not require appoint looks for meaning.
- 2) The LED probables speaked modules shall 12 into existing 15" x 15" valued by (probables) bijest introduce built in inclining of Transportation Engineers valued Trails (Cariot Signal Pirashing (VTZ VTVSH) Standards without modules in the frequency
- mediturion to the bousing.

 The LED pedestion symbol mestric, when epocified fundated complete with fundating shall meet the additional requirements on specified in Section 8.6 Thresion and Tour Funda and Visar', below.
- "Housing" and 9.0 "Door Frame and Visor", below.

 4) The LED signal module shall consist of a side-by-side message by combining the symbols of a "Hand" and "Walking Person", displayed left to first.
- 5) The typical power consumption for the "Hand" shall be 8W; the typical power consumption for the "Person" shall be 7W.

1.6 Purpose

The purpose of this specification is to provide the minimum performance requirements for LED pedestrian signal modules (hereafter called module or modules) with "walking person" & "upvaised hand". This specification shall be used for only the following size (nominal message beading surface): 405mm x 457 mm (16 in x 15 in). This specification refers to definitions and practices described in "Pedestrian Traffic Control Signal Indications" published in the Equipment and Materials Standards of the institute of Transportation Engineers, referred to in this decument as "TTEL"

THE EDUCATION AND ADDRESS OF THE PARTY OF TH

The following deficitions are in addition to the definitions in the FTCSI.

At Capacinosic Februs, The total less of visible liberty sizes from the LISC light source.

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix A

Specification

2.2 Chromaticity. The color of the light emitted by a module, specified by the x, y chromaticity coordinates on the 1931 Commission Internationale d'Eclairage (CIE) chromaticity diagram.

2.2 conditioning. Energizing a LED signal module at a specified ambient temperature for a specified period of time, to cause any early electronic component mortality failures to occur and to detect any component reliability problems.

as one oper. The someof of time during a specified fine period field a module is energized, apprecial as a percent of the specified time pariet.

2.5 Abrasion Resistance Material. A surface coating or integral material that provides outer lens front surface abrasion resistance.

2.6 LEO Light Pearce. An erray of LEDs mounted on a printed droubt board.

2.7 LEO Perseasa Signal Module (modulo). A signaling unit comprised of an LEO light sources and a related power supply, and any required lenses, which, when connected to appropriate power, provides a padeoless signal bullculon.

as tundemen. The hardware fan combbd or enfected from a surface, in a given direction, por tail could ample, divided by the even of the surface, expressed as other.

as michael addition transport. The midmin kindmine a module is required to provide broughout covice as a peckerhian control signed.

2.10 Nominal Operating Voltage. The AC RMS voltage, 120 VAC, at which photometric performance and power consumption are specified.

2.11 Power Consumption. The electrical power in Watts consumed by a module when operated at nominal operating voltage and ambient operating temperature range.

ats Force Feator. The power factor equals Watts divided by Volt-Ampère or the ratio of power consumption in Walts to Volt-Ampères.

2.19 Figu numeric Engineer (THD) is the suite of the motorism-equals (SWE) value of the harmonics to the amplitude of the fundamental component of the AC waveform.

2.14 Translate. To move an object along a linear vector, such that the orientation of the object closs not rotate relative to the original frame of rotatence.

 $2.15\ {\rm Tum}$ OFF Time. The amount of time required after removal of the nominal operating voltage for the LED signal module to show no visible illumination.

2.12 Tem CSP tebuge. The vokepe below which the LEO signal module smile no visible Membroton.

ANY New ON Tane. The exercise of time required for the LETP eigend medicie to mach this of hill Numination.

2.18 volt-amperes. The product of the root-mean-square (RMS) line voltage and RMS line current, measured with true RMS meters.

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix A

Specification

3.0 Physical & Mechanical Requirements

3.1 General

- 3.1.1. Lisage: Modulos abail 31 into podesirion signal translaga marufacturad in accordance with the ITE PTOSI Standard, March 1985, without modification to the translag.
- 3.1.2. Installation requirements: Installation of a module into an existing pedestrian signal housing shall only require the removal of the existing optical unit components, i.e., lens, lamp module, gaskets, and reflector, shall be weather tight and fit securely in the housing, and shall connect directly to existing electrical whing, installation shall not require special tools.
- 3.1.3. The sizes of the message bearing surfaces shall be in accordance with the dimensions given in Table 1.

Table 1-Dimensions of Signal Sizes

Message Bezring Surface Height X Width	Minimum Message Size Height X Width	
406mm x	297mm x	
457mm	178mm	
(10" x 18")	(11" x 7")	

3.1.4 LED Modules shall completely comply with the ITE PTCSI — Part 2: LED Pedestrian Traffic Signal Modules specification. ETL/Intertek certified test reports are required to verify full complete to the ITE PTCSI — Part 2 LED Pedestrian Traffic Signal Modules specification.

4.2 The LSD digral Media

- 3.2.1 The module shall be capable of replacing the optical component of the pedestrian indication.
- 3.2.2 The lens shall have a textured surface to reduce glare.
- 3.2.3 The module lens may be a replaceable part, without the need to replace the complete markille.
- 3.3.4 Abración Floristanca A surface costing or integral melantal shall be used to provide front exellene abración resistence.

BID NO.: 9695-0/18

SECTION 3 TECHNICAL SPECIFICATIONS

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix A

Specification

- 3.2.5 For optimum diffusion of all loons, there shall be a minimum of 1.5 inches of space between the surface of the module lens and the LEOs used to illuminate the icons.
- 82.6 This Turbood Connect LED's shell be of the labest AleGaP technology and the "Lunar White" LED's of the bleet in CaN bedrackey.
- 3.2.7 The configurations of the walking person icon and upraised hand icon are illustrated in Figure 1 and Figure 2 respectively. The upraised hand and walking person icons shall be a minimum of 11 inches high and 7 inches wide.

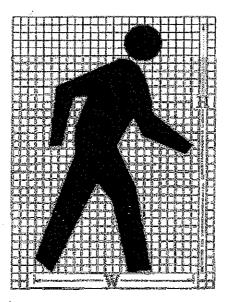


Figure 1—Vielbing Person bon

BID NO.: 9695-0/18

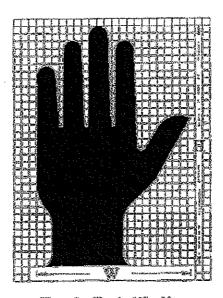
SECTION 3 TECHNICAL SPECIFICATIONS

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix A

Specification



Mysec 2— Opresed Head from

5.5 Electrical sector Programmento

- 3.3.1 All deposed components of a medials shall be estable for pricegal exposure to the emborance, without oppreciable deposition that would bitariens with function or appearance. As a minimum, extensed materials afted be raised for correct for a posted of a subtlemm of 60 months in a south-facing Astatus Casest installation.
- 3.3.2 A module shall be rated for use throughout an ambient operating temperature range, measured at the exposed rear of the module, of -40°C (-40°F) to +74°C (+165°F).
- 3.3.3 A module shall be protected against dust and moisture intrusion, including rain and blowing rain.
- 3.3.4 The module large shot not enest, come or yellow due to enler UV imadiation typical for a excell-facing Astrona Caspet beliefables effor a mislimum of 60 modifie in 681666.

A.J. Construction

- 3.4.1 The module shall be a single, self-contained device, not requiring on-site assembly for installation into an existing traffic signal housing. The power supplies for the module shall be integral to the module and shall be conformally coated.
- 2.4.2 The assembly and manufacturing process for the module shall be designed to essure all internal LEO and elements compared are adequately supported to withhold mediantical chart and observed the shall mediantical chart and observed.

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix A

Specification

3.5 Materials

- 3.5.1 Materials used for the lens and module construction shall conform to ASTM specifications for the materials, where applicable.
- 3.5.2 Enclosures containing either the power supply or electronic components of the signal module shall be made of UL94 flame reterdant materials. The module lens is excluded from this recoverest.

S.S Medido Massillerian

- 3.6.1 Each module shall be identified on the backside with the manufacturer's name, model, operating characteristics and serial number. The operating characteristics identified shall include the nominal operating voltage and stabilized power consumption, in waits and Voltangeria. The main module based which includes the madel's ratio resident (or date code) and the model number shall be attracted using polyneter or vingi self-utilisates labels. The use of paper labels to not acceptable.
- 3.6.2 Modules shall have a prominent and permanent vertical indexing indicator, i.e., UP Arrow, or the word UP or TOP, for correct indexing and orientation in the signal housing.
- 2.0.3 Modules conforming to all requirements of this specification shall have a statement on an example block which states conformance to the latest remain of the ITE PTCSI Part 2 LSD Postavium Signal Specification.

4.0 Photometric Requirements

4.1 Luminance, Uniformity and Distribution

- 4.1.1 For a minimum period of 60 months, the minimum maintained luminance values for the modules under the operating conditions defined in Sections 3.3.2 and 5.2.1, when measured normal to the plane of the icon surface, shall not be less than:
- Wolking Person: 2,200 cd/m²
- Upraised Hand: 1,400 od/m²
- Countdown Digits: 1,400 cd/m²

The luminance of the emility quiecs, measured at angles from the normal of the malace, may decrease knearly to a value of OTE of the values lated above at an angle of 15 degrees.

The light output requirements in this specification apply to pedestrian signal heads without any visors, hooded or louvered (egg-crate). Addition of such visors may affect the light output of the signal head.

4.1.2 The uniformity of the walking person, upraised hand, and countdown digit icons' turninance shall meet a ratio of not more than 1 to 10 between the minimum and maximum turninance values, as measured in 12mm (0.5 in) diameter spots.

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix A

Specification

4.1.3. When operating within the temperature range specified in Section 3.3.1, the average luminance of the module shall not exceed three times the maintained minimum luminance of the modules, as defined in Section 4.1.1.

The elegibed colors for the LED Pedeships Signal blockin shall be Vidte for the residen person and Portoni Courge for the upmixed band and countries digit leans. The colors for these leave shell contern to the following outer regions, beand on the 1881 CIE chrossibility Chrest.

Walking Person-White:

x = 0.280. Blue boundary:

1st Green boundary: $0.280 \le x < 0.400$

 $y = 0.7917 \cdot x + 0.0903$.

2nd Green boundary: $0.400 \le x < 0.450$ $y = 0.46000 \times \pm 0.2310$.

Yellow boundary: x = 0.450

T^d Pupis bunkey. 0.400 s x < 0.400

y=0.4839*x+0.1810.

Z^{el} Puple bounisty: CAMBIA CAMP

y=GTDTF=+GOAGG

	iAhibs	
Food	N	¥
4	0.280	0.370
2	0.400	0.415
3	0.490	0.415
4	0.450	0.358
5	0.400	0.565
46 8	0.280	0.270

UPRAISED HAND -- PORTLAND ORANGE: YELLOW BOUNDARY: y ≈ 0.390

WHITE BOUNDARY: 0.600 ≤ x ≤ 0.680

Y = 0.990 - X

y = 0.331. RED BOUNDARY:

	Foliaro	CHINE
Point	. X	¥
1	0.0006	0.390
2	0.800	0.300
1 3 1	0.850	0.231
	0.480	0.301

The color regions are illustrated in Attachment 1.

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix A

Specification

4.3. Color Uniformity

The uniformity of the emitted colors shall be such that any color measurement within a 12mm (0.5 in) spot on the emitting surface shall fall within the following regions around the average measured color of the emitter emitting surface:

• Walking Person—White: $\sqrt{(3x^2)(4y^2)} \le 0.04$;

visions an end by one the differences in the absorbaticity accordinates of the measured colors to the coordinates of the energie color, while the CRE 1931 Chromology Diagram and a 2 degree Straight Chromos.

Upraised Hand and Countdown Digits—Portland Orange:

The dominant wavelength for all individual color measurements shall be within ±3 nm of the dominant wavelength for the average of all the individual color measurements.

E.O. STREET, SAN

5.1 General

- 5.1.1 All wiring shall meet the requirements of Section 13.02 of the VTCSH standard. Secured, color coded, 600V, anti-capitlary, 18 AWG jacketed wires, 1 meter (39 in) in length, conforming to the NSTA 70, Nedbord Electrical Code, and retail for service of +105°C, shall be provided.
- 5.1.2 The following color scheme shall be used for the module's AC power leads: Orange for the upreised hand and countdown digits, Blue for the walking person, and White for common.
- 5.1.3 So as to reduce crowding of terminal blocks and housings, modules containing a Hand & Person Overlay display as well as a Countdown Timer display shall have only three wires (1 countge, 1 blue, 1 white) exiting the LED module for electrical connection to intersection field wires.
- 5.1.4 The AC power leads shall exit the module via a nubber grommeted shall relief, and shall be terreleated with quick connect terralises and space tab adaption. The leads what be expected at the point of which they bear the module.

5.2 Voltage Range

- 5.2.1 LED signal modules shall operate from a 60±3 Hz AC line power over a voltage range from 80 to 135 VAC RMS.
- 5.2.2 Fluctuations in the voltage over the range of 50 to 175 VAC shall not effect business intends by more than side partiest.
- 5.23 The module strokiny shall prevent Schar of the LED extput at tropperates have then 100 Mz over the voltage marge specified in Section 5.2.1.

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix A

Specification

5.2.4 Low Voltage Turn OFF: There shall be no visible illumination from the LED signal module when the applied voltage is less than 35 VAC.

6.2.9 Tem-CNI suci Turn-OFF Time: A modulo chell reach 90% of full flumination (burn-ON) within 75 mass; of the application of the nonfast operating voltage. The signal shall cases emiliting visible flumination (barn-OFF) within 75 mass of the nominal operating voltage.

5.2.0. Defect Conditor: For elanomical conditions when nominal voltage is applied to the Hend and Penson phase whose (with each lean having a neutral return path) the padestitut algorithm and shall defect to the hand symbol or shall be blank.

A.2 Translani Vallego Protection

The cn-board circulary of the module shall include voltage surgs protection, to withstand high-repetition noise translands and low-repetition high-energy translands as stated in Saction 2.1.8. NEMA Standard TS 2-2002. In addition, the module shall comply with the following elandards: IEC 1000-4-5 at 3tV with a 2 class source impedance, ANSI/IEEE C62, 41-2002; IEC 21000-4-12 (65V, 2004, 1000) to the property.

ga Elemberko Heksa

The LED signal and associated on-board circuitry shall meet the requirements of the Federal Communication Commission (FCC) Title 47, Subpart B, Section 15 regulations concerning the emission of electronic noise by Class A digital devices.

3.5 Power Fector (PF) and AC Harmonics

5.5.1 Modules shall provide a power factor of 0.90 or greater when operated at nominal operating voltages, and 20°C (77°F).

5.5.2 Total hamsolo distribut instanci into an AC power time by a modulo of modulal coverage volume, and at 25°C (77°F), shall not exceed 20%.

A to Combroller Associately Compatibility

5.6.1 The current draw for hand and person loans shall be suitabilit to ensure compatibility and proper triggering and operation of load current switches and conflict marrieds in signal controller units.

5.6.2 Off State Voltage Decay: When the hand or person icon is switched from the On state to the Off state the terminal voltage shall decay to a value less than 10 VAC RMS in less than 100 milliseconds when driven by a maximum allowed load switch leakage current of 10 milliamps peak (7.1 milliamps AC).

4.7 Falled State Inspectores

The module shall be designed to detect catastrophic loss of the handlperson LED lead. Upon according the base of the LED load, the module shall present a resistence of at least 250 kG according to handlperson input power leads within 500 mass. The LED light source will be said to have falled extended to find a shall be said to have falled extended to find the said to have falled extended to find the said to show any visited likenization when emergical extending to Section 5.2.1 after 75 mass.

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix A

Specification

6.0 Quality Assurance

6.1 General

- 6.1.1 Quality Assurance Program: Modules shall be manufactured in accordance with a vendor quality assurance (QA) program. The QA program shall include two types of quality assurance: (1) design quality assurance and (2) production quality assurance. The production quality assurance shall include statistically controlled routine tests to ensure minimum performance levels of modules built to meet this specification.
- 6.1.2 Record Keeping: QA process and test results documentation shall be kept on file for a minimum period of seven years.
- 6.1.3 Conformance: Module designs not satisfying design qualification testing and the production quality assurance testing performance requirements in Sections 6.3 and 6.4 should not be labeled, advertised, or sold as conforming to this specification.

6.2 Manufacturen, Social Mandana

Each module shall be identified with the information specified in paragraph 3.6.1.

6.3 Production Tosts & inspections

- 6.3.1 Production Test Requirements: All modules tendered for sale shall undergo the following Production Testing & Impaction polar to obtained. Politics of a module to most the requirements of Production Testing & Impaction what be cause for rejection. Test results shall be materially up the requirement of Section 8.1.2.
- 6.3.1.1 All Production Tests shall be performed at an ambient temperature of 25° C (77°F) and at the nominal operating voltage of 120 VAC.
- CLLE Production Luminosmo Text: Head/Person icons shall be tested for maintained printeurs luminosmo. Any measurement with a correlation in the handwate requirements of Senten 4.1.1 may be used. Mediate that the not meet the maintained minimum tunismos regularments as per Section 4.1.1 shall be refealed.
- 3.3.3 Power Factor: Hand/Person from whall be tested for power factor per the requirements of Section 5.5.1. A commercially available power factor maker may be used to perform this measurement. Fallure of a module to meet the requirements for power factor (5.5.1) shall be esses for relection of the module.
- 0.3-4 Current Consumption bisesumment: Head-Ferron loose shall be presented for ourself flow in Amperes. The monerard current values shall be compared equiped the design current values from design qualification measurements in Section 6.4.6.1. A moneraid current consumption in excess of 120% of the design qualification current values for an authorities temperature of 25°C (7°FF) shall be cause for rejection of the module.
- 6.3.5 Visual Inspection: All modules shall be visually inspected for any exterior physical damage or assembly anomalies. Careful attention shall be paid to the surface of the lens to ensure there are no scratches (abrasions), cracks, chips, discoloration, or other defects. The presence of any such defects shall be cause for sejection of the module.

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix A

Specification

6.4 Design Qualification Testing

- 6.4.1 Design Qualification testing shall be performed on the hand/person icons of new module designs, and when a major design change has been implemented on existing hand/person pedestrian signal designs. Modules used in design qualification testing shall be representative of the manufacture property assumed production.
- 6.4.1.1 Testing shall be performed used every 5 years or when the medicle design of ESD sectionslogy has been shonged. That date shall be retained by the medicle manufacturer is accordance with Section 6.1.2 or for 60 months following final production of a specific design, whichever is larger.
- 5.4.1.2 Six modules shall be used in Design Qualification Testing. All six modules shall be subjected to conditioning (6.4.2), followed by the Environmental Tests (6.4.3). Following the Environmental Tests, three modules shall undergo Photometric & Colorimetric Tests (6.4.4). The remaining three modules shall undergo the Electrical Tests (6.4.5) and Controller Compatibility Tests (6.4.5.11). Tests shall be conducted in the order described herein, unless otherwise specified.
- 6.4.1.3 In order for a module design to be considered acceptable for marking with the label described in 3.6.3, all tested modules must comply with the acceptance/rejection criteria for the Environmental Teste (6.4.3), Photosophia & Colombiantic Teste (6.4.4), Electrical Teste (6.4.5), and Controller Asserbly Compatibility Teste (6.4.5.11).
- 6.4.2 Conditioning: Modules shed be energized for a minimum of 24 hours, at 190% day cycle. In an ambient temperature of +60°C (+140°F).

6.4.3 Ensarance of Teathers

- S.A.I. Mechanical Vibration Testing: Times modules shall be tested per blk.-STD-083, Test Mothed SCVF, soing three 4-calcule sycles etcny each z, y, and z axis, at a times of 2.5 dis, with a frequency sweep from 2 Hz to 120 Hz.
- 0.43.2 Temperature Cycling. Temperature cycling shell be performed per 1919.-67TD-693, Text method 1010. The temperature range shell be per Section 2.3.1. A minimum of 20 cyclos shell be perferred with a 30-intente temperature time between temperature communic and a 30-minute dwell time at each temperature. Modules coder test shell be non-operating.
- G.4.3.3 Moisture Resistance. Moisture resistance testing shall be performed on a sample of three mortules per MIL-STD-210F, Procedure I, Rain and Blowing Rain. The test shall be conduced on a stand-alone unit, without a protective housing. The rainfall rate shall be 1.7 movimin (4 brits) and droplet size shall predominantly be between 0.5 mm and 4.5 mm. The module shall be rotated through 120 degrees and the duration of the test shall be 30 minutes. The module shall be an engined throughout the test. The water shall be at 25°C. The wind velocity shall be 50 km/m (50 mph). Any evidence of internal moisture into the module shall be cause for rejection.

TRAFFIC POLES. MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix A

Specification

- 6.4.3.4Hard Coat Test (Optional): When applicable, a sample of three (3) modules shall be tested in accordance to the abrasion resistance test ASTM D1044. A weight of 500 grams shall be applied on a CS10F wheel for 150 cycles.
- 6.4.3.5 UV Stabilization: Documentation may be provided that clearly demonstrates that the extense isno compiles with the requirements of section 3.3.4.
- 6.4.3.5. Environmental Testa Exclusion: At the combation of the Environmental Twis, all the modules will be visually impected for damage.
- 6.4.1.7 Acceptance/Rejection Criteria: The locarding of the lone, or any internal compensate, or anidance of other physical demage, much as cracking of the module land or interling, or presence of internal moisture after testing that be considered a failure for the proposed design.
- 8.4.4 Photometric & Calorimetric Tests: Three of the modules that were subjected to the Environmental Tests shall undergo Photometric & Colorimetric Tests. Unless otherwise specified, these tests shall be performed with the modules energized at nominal operating voltage (120 VAC).
- 6.4.4.1 Maintained Minimum Luminance: The sample set shall be tested for maintained minimum luminesses at both 25°C and 74°C. Prior to making measurements, each module shall be operated at a 100% duty cycle for a minimum of 60 minutes at the less temperature.
- 0.4.4.2 For elevated temperature hasing at 74°C. The modules to be tented stall be manufed in a temperature-locking describer to that the extensel variety of the contiller but in cutofic the character and all positions behind the lone are within the classifier at a temperature of 74°C (10°T). The sit temperature in both of the large of the module shall be registed at a substant of 48°C (12°T) during the skewalled temperature testing.
- Monouvements simil be made using a luminature mader located on the physical axis of the musicis have at a distance such that the relacted aparture temples a spot size of 12mm (0.5 local) at the lane purisor. The position of the hardware mater shall be translated from side to side up and up and down, so as to comple nine points arross the emitting surface of the musicis.

The businesses values for the nine points stell be recorded and the everage value calculated.

Morkules for which the calculated everage value of temberon does not must the requirements of Section 4.1.1 shall be rejected.

- 6.4.4.3 Luminance Uniformity: The sample set shall be tested in accordance with the requirements of Section 4.1.2, using the recorded values of turninance, at a testing temperature of 25°C. The highest and lowest values of turninance shall be recorded and compared. Modules not meeting requirements of Section 4.1.2 shall be rejected.
- 6.4.4.3.1 Maximum Luminance: The sample set shall be tested in accordance with the requirements of Section 4.1.3, using the recorded values of luminance, at testing

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix A

Specification

temperatures of 25°C and 74°C. Modules for which the calculated average value of the luminance exceeds the limit established in Section 4.1.3, at either or both temperature taxes, shall be rejected.

6.4.44 Circumstaty: From the comple set, two modules shall be measured for chromaticity per the requirements of Section 4.2. Prior to meisting measurements, resoli module shall be operated at a 100% duty cycle for a minimum of 50 minutes at +25°C (+77°F). Color measurements shall be made using a spectro-radiometer with a maximum bendwidth of 4 nm, or a colorimeter that has a measurement uncertainty of less than 2.5% over the emission bandwidth of the icon under measurement.

Measurements shall be made by locating the instrument on the axis normal to the emitting surface of the icon, at a distance such that the meter samples a spot size of 12mm (0.5 inch) at the lens surface. The position of the instrument shall be translated from side to side and appeared down, as as to sample nine practice across the according surface of the module.

The chromology cocratroles of the emitted light at the nine points stall be recorded and the exercise value calculated. In addition, the dominant wavelengths for the nine sampled points of the band least shall be established and recombot.

Modules for which the calculated average chromaticity coordinates do not meet the requirements of Section 4.2 shall be rejected.

- 6.4.4.4.1 Color Uniformity: The sample set shall be tested in accordance with the requirements of Section 4.3, using the recorded values of the chromaticity coordinates (walking person—white icon) or the dominant wavelengths (hand—portant change icon), from Section 6.4.4.4. Modules not meeting requirements of Section 4.3 shall be rejected.
- 6.4.4.5Photometric & Colorimetric Tests Evaluation: At the conclusion of the Photometric & Colorimetric Tests, the measurement data shall be compared to the requirements of Sections 4.1. 4.2 and 4.3.
- 0.4.4.6 Acceptance/Rejection Criteria: The februs of any module to most of the requirements for metabolism architectus luminates (4.1.1) and mediturn permissible territorice (4.1.2) at 20°C and/or 74°C, and the requirements for luminates uniformly (4.1.2), decomplish (4.2), and color university (4.3) of 20°C, shall be considered a fellow of the proposed design.

6.4.5 Electrical.

- 6.4.5.1 Current Consumption: The sample set shall be measured for current flow in Amperes. The measured current values shall be used for quality comparison of Production Quality Assurance current measurements on production modules.
- 6.4.5.2Temperature ve. Power Consumption: The sample set shall be tested to measure the change in power consumption in Walts versus the change in temperature over the specified operating temperature range. This data shall be recorded and may be made available to all end users.

HERESE HEREEMEEN PROGETING : A HEREE EAST PARKET FOR PARKET HEREEMEN PARKET HEREEMEN (1997) (1997) HEREEMEN HEREEMEN (1997)

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix A

Specification

6.4.5.3 Power Consumption vs. Long-Term Life; if the rated power consumption of the module at 25°C (77°F) and 74°C (165°F) will change more than 10% over time, the manufacturer may provide documentation change; the projected power consumption in Visita of the months over a posted of 60 months from the date of installation. This documentation may include date for the following imprecious patrice: 0°C (27°F), 20°C (77°F), 50°C (122°F) and 74°C (100°F).

Q.4.6.4 Power Fester (FF): The excepts set sind be measured for power factor per the exquirements of Section 5.0.1. A consecutivity explicitly power factor make may be used to perform the measurement. The PF shall be calculated apparately for each of the issue for the modulo.

6.4.5.5 Total Harmonic Distortion (THD): The sample set shall be measured for total harmonic distortion per the requirements of Section 5.5.2. A commercially available total harmonic distortion mater may be used to perform this measurement. The THD shall be measured for each of the icons for the module.

6.4.5.6Low Voltage Turn OR: The campio set shall be measured to ensure compliance with the law voltage turn-off requirement of Goeden 5.2.4. To test for this candillan each ison must first be tuly literalizated at the normal operating voltage. The applied voltage chall than be reduced to the point when there is no wishe literalizated. This point must be greater than 35 VAC PINS AC.

CART Tunch and Turn-Cit Times. The sample set shall be restored to create compliance with the turn-cit and sur-cit requirements of Section 5.2.5. The measurement shall be constructed taking a har channel coefficiencys to measure the time stelly between when the medials is consignal at 120 VAC PRES and when the light output resches 60% of this coput. A photo multipliar biles shall be used to measure the light output of the module. The same opposition stell be used in measure the time delay between when the medials is decreased on the stell between when the medials is decreased by the first materials in the light cutout resches 0% of fail cutout. The time in measure that he photost in the V sale.

A market not reaching 60% numbed light output within 75 mass at sixt-up or all chowing light culput 76 mass after being do-energized shall be deemed to have lated this leaf.

0.4.5.6 Electronic Nobes: From the exemple set, a comple of 2 modules shall be install. The modules shall be install for conformance with the regiments of a Class A digital davide, so openied in PCC Title 47, Subport S. Santon 16.165(b).

6.4.5.9 Nondestruct Transient Immunity: The sample set shall be tested for transient immunity using the procedure described in Section 2.1.8, NEMA Standard TS 2-2003. Failure to meet these requirements shall be cause for rejection.

8.4.5.10 Bearing Tests Bestmine At the consistent of the Electrical Tests, the measurement data shall be compared to the requirements of Sections 6.2 through 6.7.

6.4.5.10.1 Acceptance/Rejection Criteria: The failure of any module to meet the applicable requirements of Sections 5.2 through 5.7 shall be considered a failure of the proposed design.

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix A

Specification

6.4.5.11 Controller Assembly Compatibility. Due to the low load current draw and high offstate impedance of modules, testing shall be performed to ensure the module design is compatible and operates properly with load ourrent exitches and conflict mentions in NEMA and Type 170 traffic signal current units.

Before performing the industry tests, the manufacturer stands accorden which type of eigent controller unit(e) the processing traffic authority authorize has in use and talker those tests to meat the requirements of that type and model of controller unit(e).

- 6.4.5.11.1 Load Switch Compatibility. The sample set shall be tested for compatibility and proper operation with load current switches. Each module shall be connected to a variable ac voltage supply. The ac line current into the module shall be monitored for sufficient current draw to ensure proper load switch operation while the voltage is varied from 80 VAC RMS to 135 VAC RMS. Failure of the current draw to ensure proper load current switch operation shall be cause for rejection.
- 6.4.5.11.2 Signal Conflict Monitor (MMU) Compatibility: The sample set shall be tested for compatibility and proper operation with signal conflict monitors. Each module shall be operated from a 125 VAC RMS supply. A 18.5 kG resistor shall be wired in assist in the hot line between the medicle and the so power supply. A single-pole-single-from satisfic from the line operated across the 19.5 kG resistor. A 220 kG sinus resistor shall be satisfic and the natural first compation on the module. Conflict moduler compatibly shall be tested by necessing the voltage decay across the 221 kG sinust resistor on follows. The single-pole-sinuse section that be chosed, should be resisted to a power supply to itemize the module. Need the substitution to 10.5 kG resistor, allowing the across the 221 kG states resistor shall be operated, and the voltage topos to 221 kG states resistor shall be resisted for a decay to a value equal to or less than 10 VAC RMS value a time period equal to or less than 100 millisoconds. This best shall be repeated a confident number of times to amount that testing occurs at the past of the sc line value, cycle.

A voltage decay across the 220 kG shart resides to a volta greater than 10 VAC RMS or a decay time to 10 VAC RMS greater then 100 milliseconds shall be cause for rejection.

- 6.4.5.11.3 Controller Assembly Compatibility Evaluation: At the conclusion of the Controller Assembly Compatibility Tests, the measurement data shall be compared to the requirements of the specific make and model Controller Assembly with which the module design is intended to operate.
- 6.4.5.11.4 Acceptance/Rejection Criteria: Failure of the module to draw sufficient current to ensure compatibility with the load current switches in the appropriate Controller Assembly (5.7) and/or failure of the circuit voltage to decay to a value equal to or lase than 10VAC PAGE within a time purposed equal to or lase than 100 millionarche (6.7) shall be considered a failure of the proposed design.
- 6.4.5.12 Failed State Impedance Test: The modules shall be tested for compliance with the requirement for provision of a failed-state impedance (5.7). The test is conducted in two parts: first the module is energized with the LED load disconnected from the power supply to establish the failed-state impedance. Next, the requirement for the failed state impedance is tested. The module shall be operated from a 120 VAC voltage supply.

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix A

Specification

- a) Wire a 50 kΩ resistor in series with the hot line between the module and the AC power supply. A 100 kΩ shunt resistor shall be wired between the hot line connection and the neutral line connection on the module. A single-pole-single-throw smitch shall be wired in parallel with the 50 kΩ module. With the switch in the closed position and the LED load disconnected from the module power supply, energize the module for 300ms to existing the tribed state impactance (6.7).
- b) The second part of the failed siede impediance set is constrained to insure that the appropriate talled chain impediance is autoblished. The catalon is opened and the circuit is energical by the 120VAC voltage supply. The voltage except the 150 KC short resider shall be continuously mentioned. The voltage shall decay to a value equal to argumber than 10 VAC FMM. For the continuous interval of 600 mm through 1500 mm, after energizing the circuit with an open switch, the measured voltage shall be 70 VAC RMS or greater. The second part of the test shall be repeated 10 times, with the minimum voltage recorded during the continuous interval of 500 ms through 1500 ms, after energizing the circuit with an open switch, recorded as the final last value.
- 6.45.12.1 Falled State Impedance Teel Bysicalium: At the conduction of the Falled State Impediance Teel, the measurement data shall be congrated to the registerated of Section 5.7.
- 8.4.5.12.2 Acceptance/Rejection Criterio: Fedure of the voltage across the 100 kg stant resister to remain at a value equal to or greater than 70 VAC RMS for the continuous time interval of 500 ms through 1500 ms, after energizing the circuit with an open switch, shall be considered a failure of the proposed design.

7.5 Fearby: Fitten months operates complete with Housest

- 7.1 The meximum overall dimensions of the signal head shall be 10-1/2 inches wide, 16-3/4 inches high including latch/hinge luga; and 9 inches deep, including the sunshield.
- 7.2 The housing simil be a one (1) place excession reclaim; eluminum alog discountry complete with integrally cast top, belong eldes and back. Four (4) integrally cast these ing pairs, two (2) at the top and two (2) at the belief of each case, shall be received for operation of a swing down door.
- 7.3 The housing for padesistan signals shall be dustrum, weatherproof and correction meistant and shall provide for easy access to and replacement of all components.
- 7.4 The housing shall have openings at the top and bottom to accommodate standard Department approved traffic signal mounting brackets. The top and bottom openings of the housing shall have a traffic signal industry standard Shurlock boss. The teeth shall be clean and sharp, to provide full engagement with the mounting brackets. The radial angular grooves of the Shurlock boss when used with the Shurlock fittings shall provide total positive positioning of the entire signal head to eliminate rotation or misalignment of the head.

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix A

Specification

8.0 Door Frame and Visor (When modules specified complete with Housing)

- 8.1 The doorframe shall be a one (1) piece corrosion resistant aluminum alloy die-casting, complete with two (2) hinge lugs cast at the bottom and two (2) lath slots cast at the top of the door. The door shall be attached to the handing by means of two (2) Type 304 stainless shall spring pins. Thus (2) stainless shall hinged brits with empires stainless shall wing rate and washers shall be attached to the housing with the use of stainless shall spring pins. Therefore, intuiting and unisabiling of the door shall require no trude.
- 8.2 The eignal head shell be provided with a Z-crain type or Department approved equivalent type visor (sunshield) designed to eliminate sun phonton.
- 5.3 The Z-trate type sunshield shall be installed parallel to the face of the Hand/Person symbol message. The Z-crate conshield assembly shall be task in place by the use of stabiliess steel screws.
- 5.4 The Z-crose type autoridate excernity that consist of horizontal increase temperatured to a ziepas pastern or a Department approved pattern.
- A.S. The basic material used in construction of the visor siteli be nominally 0.000 thick and shall be one-hundred percent (100%) imprepared black polynophorous placin processed with a fait thick on both chies.
- 5.6 The assembly shall be environd in a mounting frame constructed of 0.040 minimum thickness aluminum or polycarbonate placific. This frame shall be 1-1/2 invites deep and shall contain mounting holes for direct insertion in the pedestrian signal doorframe.
- 8.7 When installed in front of the Hand/Person signal messages, when illuminated, the visor (sunshield) shall not obscure or modify the clear recognition of a "Hand" or "Walking Parcer" symbol to a predestrian facing the signal head the zero degrees (I") harborial, when waved installed, at a height between 7 to 10 fact vertically above the sidewalk from a distance between these fact (15") and one funding twenty fact (120").

ao marany

Manageonnero sinsi provide a writen warranty lamed by the factory located in the NAFTA country of module origin with the labowing minimum provident:

- 1.1 Modulos studi po replaced, repaired or purchase value relacied if the modulo falls to funcion as balanded due to verticalantly or restated defects within the first study (60) manifes from the date of delivery.
- 9.2 Modeles which exhibit luminous intensible less from the minimum specified values within the first obdy (60) months of the date of delivery shall be replaced, repaired or marches wise minimum entends.
- Upon request, the LEO pedestrian mustic Marxisters shall provide within documentation of its ability to satisfy a worst-case, catastrophic wanterly dain. A current corporate annual report duty-catalied by an independent auditing firm, containing financial statements illustrating sufficient cash-on-hand and not worth to satisfy a worst-case, catastrophic warranty claim is an example of suitable documentation. The documentation shall clearly disclose:

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix A

Specification

The country in which the factory of module origin is located. The name of the company or organization that owns the factory of module origin including any and all of its parent companies and/or organizations, and their respective country of corporate cilizenship. For firms with business and/or corporate cilizenship in the United States of less than seven (7) years, the process by which the end-users/owners of the modules will be able to obtain werst-case, catastrophic warranty service in the event of bankruptcy or cassation-of-operations by the firm supplying the anothers within North America, or in the event of bankruptcy or cassation-of-operations are parallel to clearly disclosure. elischende.

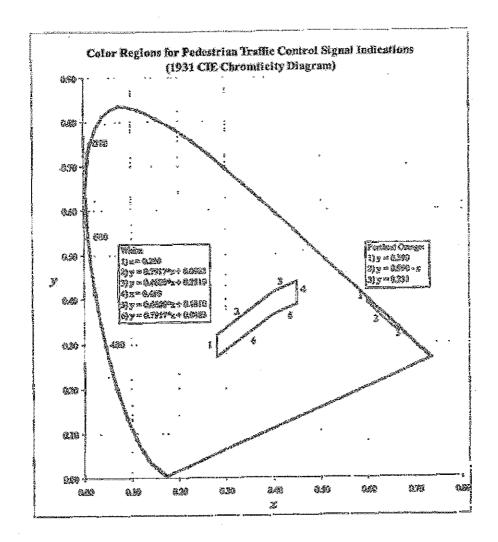
LEO Hand-Person Module-Housing TS.08-15-07.000

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP-B

Attachment for Appendix A

ATTACHMENT 1



TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix B

Specification

MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT TECHNICAL SPECIFICATION

LED PEDESTRIAN STRAL HAND/PERSON - COUNTDOWN MODULE (16" x 18" HOUSING)

1.0 Purpose

The purpose of this specification is to provide the minimum performance requirements for LED pedestrian signal modules (hereafter called module or modules) with "walking pessen", "quasised hand", and "countries of dig" looks. This specification shall be used for brily the following does (remined reseases beauting states): 60 number 100 in x 10 kg.

This specification is 607 num (16 in x 10 kg.). This specification is an extensive the control of the period of the countries of the control of the co

The Professioner The Schooling distributes one in actificants has deductive in the STICE.

2.1 Commissio Palace. The lotal loss of Walde Sambasken been the LED light source.

as assemble. The exist of the light endied by a media, specified by the a y dramaticity exorticates on the 1911 Complete internationals d'Edakers (CS) decretably depose.

at traditions, Energisty a LEO signal module at a specified emblant temperature for a specified peolod of ince, to course stry early electronic component mentally feducato course and to delect any component reliability produces.

24 bey day. The appeal of this disting a specified then point that a results is emograph, expressed as a parent of the specified time project. 2.5 Abresion Resistence Material. A surface coating or integral metarial that provides outer lens front surface abresion resistance.

BID NO.: 9695-0/18

2.6 LEO Light Source. An array of LEDs recorded on a printed object board.

ar 150 mesente Olgal Media (social). A signaling and comprised of an LEO light sources and a related power supply, and any required lances, which, when constabile to appropriate power, provides a preferation signal legislatur.

as Londence. The beninese flux emitted or redecised from a surface, is a given circulan, per unit solid angle, divided by the area of the author, supressed as whit.

2.5 Milsem Malabert Lemberts. The originum Lumbrance a module is required to provide throughout service as a podretten carerol signal.

an mains opening vinya. The AC Mills vinya, 120 VAC, of white photographs paternames and power consumption 20 specified.

an reserve comments. The destical power in Male consessed by a northle when operated at numbed operating whate and ambient operating temperature males.

2:0 rome fisher The parter fision equile White disting by Volk-Empire or fire ratio of power commensation in White to Well-Amperies.

210 Test komedo Distrika (NS), THO is Sis Talia of the mod-mess-square (FUS) value of the humorica to the emplicies of the

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix B

Specification

fundamental component of the AC waveform.

2.14 Transine. To move an object along a freer vector, such that the crientation of the object does not relate relative to the original frame of reference.

2.15 Turn OFF Time. The amount of time required after removal of the nominal operating voltage for the LED signal module to above my visible likewingstics.

are tum off falson. The voltage below widelt the LEO eignel module state to visible flumination.

2.17 Turn ON Time. The amount of time required for the LEO signal module to reach 190% of this former than the signal module to reach 190% of this former than the signal module to reach 190% of this former than the signal module to reach 190% of this former than the signal module to reach 190% of this former than 190% of the signal module to reach 190% of this former than 190% of the signal module to reach 190% of the signal module to 190% of the sig

ess tokappers. The product of the mokpeon-square (FOCE) has volupe and FOSE line current, associated with two FOSE realers.

3.0 Physical & Machanical Requirements

3.4 Comprai

3.1.1. Liveyer Airdion shall fit into periodista olgani bauminga menulesiansi in accombance with the ITE FTCH Samulani, March 1865, without modification to the bounday.

1.1.2. Including respicements incidition of a method bits on origing or as a retroit replacement for existing method mean or similar podestion eignal housing shall only regular the removal of the existing optical unit components, i.e., lens, temp method unit components, i.e., lens, temp method unit components, i.e., lens, temp method unit components in the lens be resulted by a such size or the lens lens to be desired with composit directly to existing electrical widness including alectrical widness including alectrical widness.

The LED pedestion symbol/crusticum modulo, when specified jurished cometite with location shall ment the middlenet

requirements as specified in Sections 8.0 "Housing" and 9.0 "Door Frame and Visor", below.

BID NO.: 9695-0/18

3.1.3. The sizes of the message beating auticess shell be in secondaries with the dimensions given in Talife 1.

Table 1—Dimensions of Signal Sizes

Messago Bessing Surince Height X Width	Mozouzh Mezesge Stre Height X Width
4000000 X	20711211
4570000	17821211
(16" × 16")	(11° × 7°)

3.1.4 Modulos shall completely comply with the ITE PTCGI — Past 2: LEO Podestico Testes General Modulos republication. ETLiniarist conflict less reporte in the PTCGI — Past 2: LEO Podestion Traffo Signal Modulos specification.

3.5 1.501 Signal Module

2.2.1 The module shall be copedie of replantes the optical occupanced of the padicular latitudes.

S.2.2 The leng shall have a textured curbon to reduce glars.

3.2.2 The medius less may be a replaced be complete part, without the result in replace the complete module.

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix B

Specification

- 3.2.4 Abrasion Resistance A surface consing or integral material should be used to provide frost exclare statistics realizable.
- 3.2.3 For opinion distance of all loons, there and be a minimum of 1.3 houses of space between the surface of the socials have and the LEDs ared to Surface the icons.
- 3.2.6 The "Portland Orange" LED's shall be of the latest AlinGoP technology and the "Lunar White" LED's of the latest InGoM technology.
- 227 The configurations of the walking paraon least and upraised least le
- \$2.5 The LED countrious display shall consist of two 7 segment diple funding the time display. The configuration of the countrious display shall be such that the testing of the countrious display shall be 3 halves and the overell width of the diple display (both digits also by-side) shall be 7 halves. Each individual 7-segment digit shall be 3.25 individual 7-segment digit shall be 3.25 individual 6.5 indivi
- 3.29 The countions diplay shall be MUTCO compliant for examination over 160 feet bag.
- 3.2.10 Counsider Criss Challey
- 3.2.10.1 The Countdown Timer portion of the signal shall have a high "off state" input impedance so as not to provide a loss indication to conflict musitors and interfers with the monitaring of the palestrian signals. The logic impedance of the countdown character state making a value resulting shows 25 VAC to the conflict monitor for a relative state of 4 units consected on the earns channel.

3.2.10.2 The Countdown Timer drive circulary shall not be damaged when subjected to defective local substance providing a heli ware signed calcul.

- 8211 Continui Particiello
- 32.11.1 The consistent models shall be compatible with all traffic signal controllers that are fully compliant to NEMA TS-1, NEMA TS-2, Type 170, and Type 2070 boths specifications.
- 12.11.2 The continue that models shall have a micro-processor consider of remaining its own lime when contacted to a scale contacted.
- 3.2.11.3 When connected, the module shall blank out the display during the initial cycle while it records the countdown time using the Walk (Person) & DWAIK (Flashing Fixed) signal inclusions.
- 2.2.11.4 The countines true madde shell cumbunusly marker the treffic controller for any charges to the padestrian phase time and re-program Resilf submarketly if needed.
- 3.2.11.5 The countdown modulo shall register the time for the work and cheanage intention begin country down at the beginning of the podestion drange interval.
- 3.2.11.6 When the limiting Hand because said, its makes shall display 0 and then blank-out. The display shall remain dark until the beginning of the next countdown.
- 2.2.11.7 In the event of a pre-emption sequence, the countdown module shall skip the pre-empted observation then and reach 0 at the same time as the firstling Hand becomes solid.
- 3.2.11.8 In the cycle following a pre-

BID NO.: 9695-0/18

SECTION 3 TECHNICAL SPECIFICATIONS

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix B

Specification

emption call, the signal shall be capable of displaying the correct time and not be effected by the reduced previous cycle. The countdown shall reach 0 at the same time as the flashing Hand becomes solid.

12.71.0 The countries time that be capable of fining 2 countries complete particular tyrics outputed by the trible contribut (no checky final eleval between cycles).

\$2.14.10 The considers madde their have an intent consider waster proventing consider between the Hamiltonian dignal indications and the Countdown Timer display.

3.2.11.11 The countdown module shall NOT have a user selectable option offering the possibility to countdown the entire duration of the walk and clearance time.

3.2.11.12 The countdown module shall MOT have a court existiable option which share the option which share the option is named to be stored in manager to reserved from the medials for extended posteds of fina.

22.11.18 The providence models about PLTT have dipositione, but obed he obta to pad encycle disorly back to walk interval from translad pad disperson bisaval.

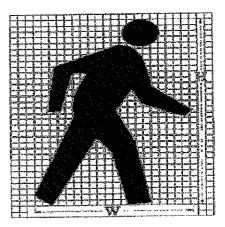


Figure 1-Walking Person icon

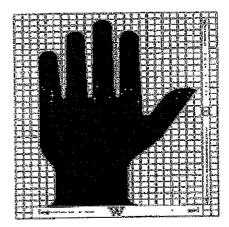


Figure 2— Upraised Hand icon

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix B

Specification

3.3 Environmental Requirements

- 3.3.1 All exposed components of a moulde shall be suitable for prolonged exposure to the environment, without appreciable depositation that would interfere with function or appreciates. As a minimum solution of appreciates that the relatific numbers for a position of a minimum of (2) mustice in a confident and appreciate and appreciat
- 3.3.2 A module chell be rated for use throughout an ambient operating temperature range, measured at the exposed rear of the module, of 40°C (-40°F) to +74°C (-40°F).
- 3.3.3 A module shall be protected against dust and moisture intrusion, including rain and blowing rain.
- 3.34 The module lone electrost cook, come or yellos due to acte UV bradistica typical for a socia-Eating Arisona Doceri installation offer a minimum of 60 morths in service.

14 Caretache

- 3.4.1 The module shall be a single, self-contained device, not requiring on-site assembly for installation into an existing trains of the module shall be integral to the module shall be integral to the module and deal the module shall be integral to the module and deal the contempting content.
- 3.4.2 The assembly and manufacturing process for the module shall be designed to assure all internal LED and electronic components are adequately supported to withstand mechanical shock and vibration from high winds and other sources.

A.U Montain

3.5.1 Metarisis used for the less and module construction shall conform to ASTM specifications for the materials, where applicable.

3.5.2 Enclosures containing either the power supply or electronic components of the signal accuse shall be made of UL94 flame retardant meterials. The module lens is excluded from this regularment.

BID NO.: 9695-0/18

S.C. Chesida Marifilativa

- 3.6.1 Each racide shall be identified on the backside with the membersurer's name, model, operating characteristics and serial number. The operating characteristics identified shall include the nominal operating voltage and obstilized power community, in watte and Volt-Anapares. The main succide lebal which business the modulate serial number (or date code) and the model number shall be attached using polyeeter or vinyl self-adhesive labels. The use of paper labels is not acceptable.
- 3.0.2 Nobles siel has a positent suf pursuon voicel inteling infects. Io. LF Amer, or the word LP or TCF. the cured inteling and arteristics in the eigent bandles.
- 3.6.3 Modules conforming to all requirements of this specification shall have a statement on an attached label which states conformance to the latest version of the ITE PTCSI Part 2 LEO Padasidan States Sections

4.0 Photometric Requirements

4.1 Luminance, Uniformity and Distribution

- 4.1.1 For a minimum period of 60 months, the minimum maintained luminance values for the modules under the operating conditions delited in Sections 3.2.2 and 5.2.1, when measured normal to the plane of the item series, shall not be less then:
- Walking Person: 2,200 cd/m²
- Uprelsed Hand: 1,400 cd/m²
- Countdown Digits: 1,400 cd/m²

BID NO.: 9695-0/18

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix B

Specification

The luminance of the emitting surface, measured at angles from the normal of the surface, may decrease limited share of an explosion of the values limited share of an explosion 15 decreas.

The light culput requirements in this specification apply to pedesiden signed heads willout eny visces, hooded or loovered (egg-crate). Addition of such visors may affect the light output of the signed head.

4.1.2 The teleandy of the waiting parties, upodeed bend, and countries digit literal luminers shall meet a rails of not make than 1 in 10 belows the minimum and madman transcript when, as measured in 12mm (0.6 in) diameter spate.

4.1.3. When operating with the temperature range specified in Section 4.3.4, the message kerburne of the medials stell not exceed these trees for melabihed relevant hardrones of the produce, as defined in Section 4.1.1.

A.2 Charactery

The signal colors for the LEO Polishing Signal Module stall be Vitide for the walking parson one Postand Crange for the appaisant family and manifests digit form. The colors for these loans shall contain to the following order regions, based on the 1951 CIE charmathly dispares

Welding Person—Wi	te.		
Phie burely:	AC.	=	9.200.
1 st Crown Braumiery:	0.280	A M	< 0.400
			+ 0.0869.
Z ^{al} Green bouriny:	ado		
	~		+ 0.2310.
Yellow houseles;c	A CONTRACTOR	122	0.460
i ^e Puch buning	CANC	Z X	< 0.400
society was	The second		+ 0.1610. < 0.280
2 nd Purple boundary:	0.400	A PROPERTY	< 0.280 +0.0403.
	A. 20 15	· 海 · · · · · · · · · · · · · · · · · ·	The state of the s

Point	<u> </u>	·
1	0.280	0.320
2	6.400	0.415
3	0.450	0.488
5	0.450 0.460	0.253 0.365
8	0.290	0.270

Uphased Hand and Countdown Desits—

Positiand Chame:

Abettam bayandara.

ome of the contract of the con

osold ex e cade, companyou everly

1-000-x

REDECREARY: Y=0.501.

ř	Portland	Crerge
Point	X	ď
1	0.6408	0.290
1 22	0.200	0.320
39	0.650	0.351
4	o.wo_	0.331

The order regions are ikalitable in Altroitussi 1.

4.1. Color Willowity

The uniformly of the entited colors about the cuch stateny order measurement in within a 12 mm (0.5 h) spot on the critising autisis when the following regions mound fro exercise measured color of the critis autising surface.

Welking Person—White:

1/0x2/H(ay1)=0.045

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix B

Specification

where Ax and Ay are the differences in the chromaticity coordinates of the measured colors to the coordinates of the average notes, using the CIE 1931 Chromaticity Disgress and a 2 degree Standard Observer.

Upsied Herd and Coatkern Digit— Podivel Coarge:

The deminant varidingth for all individual color measurements stad be within it not of the dominant wavelength for the average of all the individual color measurements.

BLAR ENGINEERING

5.1 General

- 5.1.1 All wiring shall meet the requirements of Section 13.02 of the VTCSH standard. Section 13.02 of the VTCSH standard. Section 2.00 cooled. 2007. stiff-capitally, 18 AWO lectioned wires, 1 meter (SP in) to begin, conforming to the NFPA 70. National Electrical Code, and rated for service at MISTC, shall be provided. The typical posses consumption for the head shall be 8 well, for the Person. 6 well, for the countries, 5 testi
- 5.1.2 The influency color exists a stall be used for the medials AC power lexis: Charge for the uprainst found and examines digits, bine for the working person, and White for resonant.
- 5.1.3 So as to redison correling of hemical blocks and housepp, modules contribute a land & Person Country display as well as a Countries Time display shall have only fure wises (1 cross), i blue, 1 wile) colong the LED module for electrical connection to be according tool stress.
- 6.1.4 The AC purer basis shall sold the matrix viz a maker generalized attain raiof, and shall be terminated with quick cornect terminals and specie bit edepting. The lase's shall be separate at the point at which they bears the matule.

5.2 Voltage Range

5.2.1 LED signal modules shall operate from a 20x2 Hz AO line power over a volume range from 50 to 180 VAC 1866.

BID NO.: 9695-0/18

- 5.2.2 Projection in the voltage own fin rays of 80 to 165 VAC olai not offect tenions bloody by some from 110 percent
- 5.2.5 The explain charity shall present fictor of the LEO output of frequencies has then 100 Fiz over the vollage ships smalled in Costor 5.2.1.
- 5.2.4 Low Voltage Turn OFF: There shall be no visible illumination from the LED signal module when the applied voltage is less than 35 VAC.
- 5.2.5 Turn-ON and Terr-OFF Time: A music shall need 50% of the flumbester (turn-CM) within 75 mass of the explication of the nominal operating voltage. The signal class carifold within the flumbester (turn-CFF) within 75 mass of the removal of the reminal operating voltage.
- \$2.5. Defect Condition: For street of conditions when nominal values is explicit to the field and Person place when faith sent kent having a market return pully the production agent and that defects to the family application agent and that when the field agents or should be black.

5.3 Translers Voltage Probabilism

The co-local circley of the medice stall belode wings argo projecton, to wings argo projecton, to wings and high-respicton many beneficies as a large projecton 2.1.0, PSEAS, Section TS 20070. In section, the medice shall compay with the District, the medical SEC 1000-4-5 at SEV with a 2 often except medical and the comparation, ANSIATES CC2, 41-2002; ECC 60000-4-12 (SEV, 2014, 1000-12 ring were).

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix B

Specification

5.4 Electronic Noise

The LED signal and associated on-board drouby shall meet the requirements of the Factorial Communication Commission (FCC) This 47, Subport B, Section 15 regulations consuming the endactor of electronic rules by Class A signific droubs.

S.P. Proper Factor (PF) and AC Hammalton

5.0.1 Mobiles sist provide a proof folial of 0.00 or greater when operated at numbed operating velocies, and 20°C (TTT).

S.E.T Tehni bermanin distribum indeped into on AC power into by a module of remind operating voltage, and at 2002 (77°T). Ideal not except 20%.

Edition and American Compactables

5.6.1 The current draw for head and person loons shall be sufficient to ensure compatibility and proper trippering and operation of load current switches and current monitors in signal current utilis.

56.2 OF East Voltage Recoy: When the hand or present hom to authorist traction the Cm state to the OF phile the large traction of the CM phile the large traction of the control of the large traction of the maximum of the coloured load switch backage current of 10 milliamps pook (7.1 milliamps AC).

S.J. Paliad State in podence

The product shall be designed to detect catestrophic loss of the headpeason LED load. Upon coming the loss of the LED load, the module shall present a resistance of at least 250 kg? across the handpeason house power leads within 300 mesc. The LED light source will be said to have failed establishedly if it folks to show any visible thanked at when energisted socreting to Section 4.2.1 effor 75 mass.

8.0 Chushy Assurance

Ed Carrered

6.1.1 Custy Assumes Propert Makes that he required to a countries with a senior costly assumes (CA) propert. The CA propert stall industries to types of quity assumes and (I) production quality assumes. The production quality assumes a facility industries assumes a facility assumes a subject to the production of production assumes a subject to the production assumes a subject to the production relations assumes a subject to the production relation.

BID NO.: 9695-0/18

0.1.2 Record Harping: CA process and look results decrepantedon chall his tops on the tire achieves pooled of even years.

it i. 3 Conformers: Models designs and selecting design specification feeding security testing performence requirements in Sections 2.3 and 6.4 chould not be labeled, selectionic, or sold as conforming to this specification.

0.2 Marchologers Cale Number

Easi medie and to Kerifici win the becomein appoind in prograph 2.5.1.

6.2 Production Tests & begandeds

Q.3.1 Production Test Requirements: All modules tendered for sale shell undergo the following Production Testing & Inspection prior to shipment. Failure of a module to meet the requirements of Production Testing & Inspection shell be cause for rejection. Test results shell be maintained per the requirement of Socilon 6.1.2.

6.3.1.1 All Production Tests shall be performed at an ambient temperature of 25°C (77°F) and at the nominal operating voltage of 128 VAC.

6.3.2 Probation Liminarce Test Handforem hors shall be baled for membered minimum luminarce. Any

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix B

Specification

measurement with a correlation to the luminance requirements of Section 4.1.1 may be used. Modules first do not meet the residence regularments as per Godion 4.1.1 shall be rejected.

- 6.3.3 Power Factor: Hand/Person icons shall be tested for power factor per the respiraturable of Soution 6.5.5. A commercially available power factor meter may be used to perform this measurement. Follows of a security to meet the requirements for power factor (6.5.1) shall be course for relaction of the musicipe.
- 6.3.4 Current Consumption Measurement: Hand/Person icons shall be measured for current flow in Amperes. The measured current values shall be compared against the design market values from design qualification measurements in Section 6.4.3.1. A measured current consumption in section of 127% of the design qualification of 127% of the cause for rejusion of 126°C (77°F) shall be cause for rejusion of the module.
- 6.3.5 Visual inspecient All modules shall be visually imprecied for any exterior physical demage or assembly anomaliss. Cerahl situation shall be poid to the surface of the land to another fisher are no condition (simulators), create, chips, displayellors, or other defects. The process of any such defects shall be cause for rejection of the module.

GA Diedyn Grediscosium Textico

- 6.4.1 Design Qualification testing about to performed on the handperson least of new available designs, and when a major design change has been implemented on unisting handperson properties design qualification testing shall be expressed in design qualification testing shall be expressed production.
- 6,4.1.1 Texting shall be performed once owery 5

years or when the module design or LED technology has been changed. Test data shall be residently by the medials mentiletance in accommon with Souther 6.1.2 or for 60 months following florid production of a specific design, whichever is longer.

BID NO.: 9695-0/18

- 6.4.1.2 Six modules shall be used in Design Qualification Testing. All six modules shall be subjected to confineding (6.4.7). Followed by the Environmental Tests (6.4.7). Following the Environmental Tests (6.4.7). Following the Environmental Tests (6.4.7). Following the Environmental Tests (6.4.4). The remarking three modules shall resisting the Environmental Tests (6.4.5.1) and Controller Compatibility Tests (6.4.5.11). Tests shall be conducted in the order described herein, unless otherwise specified.
- 6.4.1.3 In order for a module design to be considered succeptable for moding with the label described in 3.6.3, all tested modules must comply with the ecceptamental position extends for the Seriencemental Teste (6.4.7), Photometric & Chierimetric Teste (6.4.7), Electrical Teste (6.4.5), and Controller Amendy Compatibility Teste (6.4.5.11).
- 6.4.2 Conditioning: Modules shall be energized for a minimum of 24 hours, at 1876 duly sycle, in an ambient temperature of +88°C (+140°F).

6.4.3 Emicropolisi Testra:

- S.A.3. Mischerbad Vitarian Testing: Three modules shall be tested per MiL-STD-685, Test Medical 2007, using these 4-tainule cycles along each x, y, and z and, at a topo of 2.5 Ce, with a frequency susception 2.15 to 120 Hz.
- 8.4.3.2 Temporature Cycling. Temporature opuling shall be performed per Mill-GID-663, Test medicud 1018. The temporature range shall be per Sacilon 3.3.1. A minimum of 20 quales shall be performed with a 50-minute framés time between temporature extremes and a 50-minute

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix B

Specification

dwell time at each temperature. Modules under test shall be non-operating.

. 0.4.3.3 Isolatus Resistanto. Substate resistante testing shall be performed on a sample of three modules per MIL-STD-310F. Procedure i, Fein end Blowing Rein. The lead shall be conducted on a stanfalore unit, without a protective housing. The module rate shall be 1.7 notified (5 trins) and dropted size shall predominantly to between 0.6 mm and 4.5 mm. The module shall be optated through 120 degrees and the daration of the test shall be energized throughout the lest. The water shall be at 25°C. The wind velocity shall be 80 km/hr (50 mph). Any evidence of internal modules into the module shall be cause for rejection.

6.4.2.4 Fland Cost Test (Options): When spplicable, a sample of fives (5) mobiles shall be trated in accordance to fiss character resistance test ASTN 171044. A weight of 600 grams shall be applied on a CSTOF wheel for 160 cycles.

8.4.3.5 UV Stabilization: Documentation may be provided that clearly demonstrates that the external lens complies with the requirements of section 3.3.4.

6.4.1.3. Eminamental Tests Evaluation: At the conclusion of the Endonmental Tests, all the modules will be visually impeded for damage.

8.4.3.7 Acceptance/Rejection Criteria: The loosening of the lens, or any internal components, or evidence of other physical damage, such as cracking of the module lens or housing, or presence of internal moisture after testing shall be considered a failure for the processed design.

6.1.1 Photomotic & Colonicatio Tools: Thus of the excludes fact were subjected to the Environmental Tests shall undergo Photometric & Colorimetric Tests. Unless otherwise specified, these tests shall be servarized with the narchine servarial strending voltage (120 WAC).

BID NO.: 9695-0/18

6.4.4.1 Welnished Minkman Limitsons: The eample ool shall be listed for maintained minimum limitaines at both 20°C and 74°C. Prior to making measurements, each module shall be operated at a 100% duty optic for a minimum of 60 minutes at the last temperature.

GAA2 For classical temperature leading of 74°C, the modules to be tested shall be mounted in a temperature-testing chamber so that the external surface of the emitting term in caralde the chamber and all portions behind the least are within the chamber at a temperature of 74°C (160°F). The air temperature in front of the least of the second shall be moduled at a minimum of 48°C (120°F) during the developmentary testing.

Measurements shall be meet tobing a fundament mater located on the physical exis of the module lens at a distance such that the selected operare samples a spot size of 12mm (0.5 inch) at the lens surface. The position of the lamituance meter shall be translated from side to side and up and down, so so to sample nine points across the emiliary surface of the module.

The binitizates within for the points shall be recorded and the everage value calculated.

Modules for which the calculated average value of luminance does not meet the requirements of Section 4.1.1 shall be rejected.

CAA3 Lumbarco Unitamby: The excess est chai be baied in econologica with the regularization of Station 4.1.2, unity fire recorded values of luminance, at a testing

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix B

Specification

temperature of 25°C. The highest and lowest values of luminance shall be recorded and compared. Modules not meeting requirements of Section 4.1.2 shall be rejected.

3.4.3.1 Medican Landrence The sample set abolt to brind in accordance with the requirements of Section 4.1.2, using the recorded values of Landrence, stinciple temperatures of 25°C and 74°C. Machine for which the calculated sverge wakes of the lumination seconds the Built calculated in Section 4.1.2, at alter or both temperature levels, stell be rejected.

QAAA Chromolofy: From the curryle set. two motion chall be measured for decreately per the receivments of 42 Filor Socia 93 medica measurements, each module stall to operated at a 160% duty cycle for a minimum of 60 minutes at +25°C (+77°F). Color measurements shell be made using a species-redessoler with a mexitain barduith of 4 mm, or a columniar fra han a measurement apperishely of isos then 2.6% over the enterior bredwith of the lean under measurement.

Measurement shall be made by locating the instrument on the ends normal to the emitting surface of the icon, at a distance such that the meter samples a spot size of 12mm (0.5 inch) at the lens surface. The position of the instrument shall be translated from able to side and up and flown, so as to sample him points across the emitting surface of the module.

The chromelicity exeminates of the emilied light at the recorded and the average value calculated. In addition, the dominant wavelengths for the nice sampled points of the hand icon shall be calculated and recorded.

Modules for which the calculated average chrometicity coordinates do not meet the

requirements of Section 4.2 shall be rejected.

BID NO.: 9695-0/18

6.4.4.4.1 Color Uniformity. The sample set shall be tested in accordance with the requirements of Section 4.3, using the recorded values of the characteristry obtained to (section) poster—visits from a dominant wavelengths from 4.4.4 Mediates not meeting requirements of Section 4.3 shall be rejected.

8.44.5Photomotric & Colorimento Teste Evaluation: At the conclusion of the Photomotric & Colorimetric Teste, the measurement data shall be compared to the requirements of Sections 41, 42 and 42.

6.4.4.5 Acceptance/Rejection Criteria: The Televic of any module to meet all of the requirements for maintained scintinum banksisses (4.1.1) and macininum permission (4.1.1) at 20°C accider 74°C, and the requirements for hundrance uniformity (4.1.2), attenuitäty (4.2), and color uniformity (4.3) at 25°C, shall be considered a failure of the proposed decimal and acceptance of the proposed decimal a

645 Beckey

6.4.5.1 Current Consumption: The sample set shall be measured for current flow in Ampores. The measured current values shall be used for quality comparison of Production Casally Assurance current measurements on production includes.

S.A.S. Temperature vs. Posser Consumption: The excepts ast shall be tested to measure the change in power consumption in Waits versus the change in temperature over the specified operating temperature range. This data shall be recorded and may be made available to all and users.

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix B

Specification

6.4.5.3 Power Consumption vs. Long-Term Life; If the rated power consumption of the module at 25°C (77°F) and 74°C (165°F) will change more than 10% over time, the manufacturer may provide documentation showing the projected power consumption in Wets of the module over a period of 60 morans from the date of installation. This documentation may include data for the following temperature paints: 0°C (32°F), 25°C (77°F), 10°C (122°F) and 74°C (50°FF).

4.4.5.4 Preser Factor (PT). The serricle set shall be measured for posser factor per Ser requirements of Section 5.5.1. A commercially available power factor mater may be used to perform this measurement. The PF shall be calculated exponetely for each of the transitie.

#4.6.5Tessi Hemanic Distance (THD): The sample set shall be measured for total harmonic distortion per the requirements of Section 5.5.2. A commercially available total harmonic distortion meter may be used to perform this measurement. The THD shall be measured for each of the isona for the measure.

6.4.5.6Lest Visitage Turn Oif: This complete set shall be measured to ensure completes with the low voltage turn-off requirement of Section 5.2.4. To test for this condition each icon must first be fully illuminated at the nominal operating voltage. The applied voltage shall then be reduced to the point where there is no visible illumination. This point must be greater than 25 VAC PMS ACC.

8.48.7 Therefore and Trans-Off Transe: The sample set shall be measured to ensure compliance with the turn-on and turn-off requirements of Section 5.2.5. The measurement shall be conducted using a two channel ascilloscope to measure the time delay between when the module is ensured at 120 VAC PASS and when the

light output reaches 90% of full output. A photo-multiplier tube shall be used to measure the light output of the module. The same apparatus shall be used to measure the time delay between when the module is de-energized and when the light output reaches 0% of full output. The time is measure shall be pictied in the X axis and light output obtail be pictied in the X axis.

BID NO.: 9695-0/18

A modulo not meching 60% neathel light output within 76 masc at start-up or all sheeting light output 76 masc after being de-energized shall be desmed to have falled this test.

6.4.5.8 Electronic Noise; From the sample set, a sample of 2 modules shall be tested. The modules will be tested for conformation with the acquirements of a Open A digital device, as specified in FOC Title 47, Subpert B. Beston 15.108(b).

6.4.5.9 Nondestruct Transient Immunity: The sample set shall be tested for transient immunity using the procedure described in Section 2.1.8, NEMA Standard TS 2-2003. Failure to meet these requirements shall be stated for relations.

6.4.5.10 Exotrical Tests Executes A. Security of the Exotrical Tests, the measurement data shall be compared to the requirements of Sections 5.2 through 5.7.

6.4.5.10.1 Acceptance/Rejection Orients: The foliure of any module to meet the applicable requirements of Sections 5.2 flaruigh 5.7 shall be considered a foliure of the processed dealers.

6.4.5.11 Controller Assembly Competibility. Due to the low load current draw and high off-state impedance of modules, testing shall be performed to ensure the module design is competible and operates properly with load current switches and conflict.

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix B

Specification

monitors in NEMA and Type 170 traffic aignal control units.

Before performing the Infloring tests, the manufacturer should excepted which type of eigned controller unitie) the precuring testile maintably customer has in eac and take these tests to most the requirements of that type and model of controller unitie).

6.4.5.11.1 Load Switch Compatibility. The sample set shall be tested for compatibility and proper operation with load current switches. Each module shall be connected to a variable ac voltage supply. The reline current into the module shall be modificed for sufficient current draw to ensure proper fixed switch operation value the voltage is varied from 60 VAC FMS to 135 VAC RMS. Poilsrs of the current draw to ensure proper food connect switch operation shall be cause for mission.

845112 Opel Code Medic (400) Congestiony: The congle and chall be tered for contraction and never operáln vála elmá extilal modine. Each module shall be operated from a 135 VAC RMS supply. A 19.5 kQ resistor shall be wired in series in the hot line between the module and the as power supply. A single-pole-single-throw switch shall be wired in perallel across the 19.5 kO revision. A 720 to creat makes shall be wheel behavior the hat the connected and the medial line consumies on the maids. Confed marker compatibility shall be tooled by measuring the voluge decay some the 200 kg stand resider on bloom The single-pole-depte-fines eather shell be doed, shoring out the 19.5 Kil mulator. allustra its an power angly to Manhala the models. Next the section shall be operand, and the witego across the 220 kg/ sium reduir chai da magarai fir a decay to a value occal to or less from 10 VAC 1855 within a dino period specific or tone than 100 millsomerabs. This includes

be repeated a sufficient number of times to ensure that testing occurs at the pask of the so line walkes space.

BID NO.: 9695-0/18

A vallage decay sorces the 220 kG shart restator to a value greater then 10 VAC RNS prester then the VAC RNS prester than 100 value to 10 VAC RNS prester than 100 milliancests shall be cause for rejection.

6.4.5.11.3 Controller Assembly Compatibility Evaluation: At the conclusion of the Controller Assembly Compatibility Tests, the measurement data shall be compared to the requirements of the specific make and model Controller Assembly with which the module design is intended to operate.

d.4.5.11.4 Acceptance/rejsolan
Chicis: Folias of the models to draw
sufficient current to ensure compactivity
with the head current solicities in the
appropriate of the current solicities in the
than 100 milliseconds (5.7) shall be
considered a failure of the proposed
design.

6.4.5.12 Falled State Impedance Test: The modules shall be tested for compliance with the requirement for provision of a failed state impedance (5.7). The test is conducted in two paris: find the module is energized with the LED lead disconnected from the power supply to establish the failed state impedance. Next, the module shall be opened from a 120 VAC vertage supply.

a) Whe a CC ks2 maker in pales whi the hat the baseum the module and the AC power supply. A 100 kt2 stant moduler shall be what between the hat the correction and the statul the correction on the module. A single-pole-

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix B

Specification

single-throw switch shall be wired in parallel with the 50 kO resistor. With the switch in the closed position and the LED load disconnected from the module for power supply, energize the module for 300ms to establish the falled state banederso (5.7).

b) The encount port of the falled stake inmedance that is conducted to insure that the expension leded sinks impedance is administrad. The switch is opened and the drault is energized by the 120VAC voltage supply. The wilege ecrose the 100 kG shunt resistor chall be continuous mentered. The voltage shall decay to a value aged to ar greater from 70 VÁC RMS. For the combinate interval of 500 and Grouper 1800 and, after econolidas for checé with as own solida, the measured voltages should be 70 VAC FMS or greeter. The ensured part of the test shall be repeated 10 times, with the minimum voltege recorded during the continuous intervel of 500 ms through 1500 ms, shar energizing the circuit with an com awith, recurred so the first look

G.A.F.12.1 Falled State impolerors Test. Businesser: At the conductor of the Falled State Impolerors Test, the measurement data state he compared to the requirement of Section 5.7.

6.4.5.12.2 Acceptance/Rejection Criteria: Faikers of the voltage somes the 160 kG street resistor to remain at a voltage sor greater than 70 VAC RESS for the continuous time lateral of 500 ms. through

1600ms, after energizing the circuit with an open switch, shall be considered a felture and rejection of design.

TA PERSONA

7.1 Manufacturers shall provide a ration warranty issued by the factory located

in the NAFTA country of module origin with the following minimum provisions:

- 7.2 Modules shall be replaced, repaired or purchase value refunded if the module bills in function as intended due to replaced within the first ability (60) months from the dute of differny.
- 7.9 Studios which cultick turnings intendifies less than the miximum specified values within the first skity (60) months of the date of delivery shall be replaced, repeived or purchase value refunded.
- T.4 Lipon request, the LED padestion modes Manufacturer what provide writers droughtoned by the modely a massivers, estimately waterly form. A casest corporate armost report differentiated by an independent modeling form, containing francel statements illustrating auticion cosh-on-hand and not worth to esticat a worst-case, catastrophic warrantly date to an comple of suitable documentation. The documentation shall deadly declare.
- e) The country in which the facing of module crisin is booked.
- b) The name of the company or organization that owns the factory of module origin including any and all of its parent companies exists organizations, and their respective country of corporate citizenship
- c) For firms with business endfor corporate officership in the United States of least their owner, years, the process by which the end-users/owners of the modules will be able to obtain worst-case, catastrophic warranty service in the event of backruptcy or cassation-of-operations by the firm supplying the modules width North America, or in the event of backruptcy or

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix B

Specification

cessation-of-operations by the owner of the facility of origin, shall be clearly should be.

- 8.0 Housing (When modules specified complete with Housing)
- 4.1 The maximum overall dimensions of the eigral head shall be 10-1/2 inches wide, 18-2/4 inches high including telephologic and 2 inches deep, including the sunsides.
- \$.2 The housing shell be a one (1) place corrector resistant aluminum alky dis-casting complete with integrally cast top, bottom, sides and back. Four (4) integrally cast hinge lup pains, two (2) at the top and two (2) at the bottom of each case, shall be provided for operation of a swing down door.
- 8.3 The housing for pedestrian signals shall be dustproof, westherproof and corrosion resistant and shall provide for easy scenes to and replacement of all components.
- at the top and bottom to accommodate standard Department approved traffic signal mounting brackets. The top and bottom openings of the housing shall have a teatile signal industry standard Shurlock boss. The teath shall be clean and sharp, to provide full engagement with the mousing brackets. The radial argular grower of the Shurlock floors when used with the Desire to Shurlock floors when used with the Desire to Shurlock fillings shall provide to sliming of the entire signal head to eliminate rotation or missingment of the head.

9.0 Door Frame and Visor (When modules appoiled complete with Housing)

- 9.1 The deer frame shall be a one (1) place corrected resident standard admirant alloy die-casting, complete with two (2) hinge lugs cast at the bottom and two (2) lath slots cast at the top of the door. The door shall be statisted to the brushing by means of the (2) Type 304 standard shall print the transfer allow standard to the brushing with the ties of standard to the brushing with the ties of standard shall print place. Therefore, become and unlatching of the door shall require no tools.
- 9.2 The signal head shall be provided with a Z-crete type or Department approved equivalent type visor (carelrield) decigned to effectable our phantom.
- 8.3 The Z-crab type sustified shall be installed parallel to the face of the Hand/Person symbol message and Countdown. The Z-crate sunshield secondly shall be hald in place by the use of staintage steel surses.
- 3,4 The Z-main type sundield assembly civil consist of horizonial leavers formed in a zigosy polism or a Department approved polism.
- 9.5 The basic melorial used in construction of the visus shall be nominally 0.050 thick and shall be one-hundred percent (100%) imprograted black polycerbonete plastic processed with a list driest on both oldes.
- 9.6 The seventity stad to rentroad in a mounting frame constructed of 0.040 minimum. Thickness aluminum or polycarbonate plactic. This frame shell be 1-1/2 inches deep and shall contain

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP B

Appendix B

Specification

mounting holes for direct insertion in the padestrian signal doorframe.

8.7 When installed in first of the Hendiferson signal messages and Countdown, when illuminated, the visor (sunshield) shall not obscure or modily the clear recognition of a "Hand", "Walking Person" symbols and numerical numbers displayed in the Countdown to a patientian forting the signal head at zero degrees (0") horizontal, when viewed installed, at a height between 7 to 10 assistant.

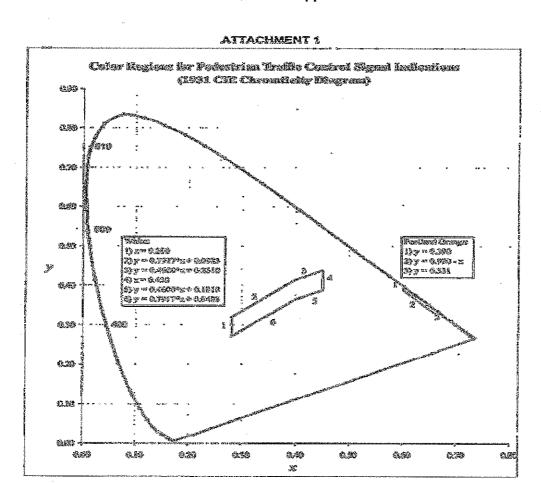
vertically above the sidewalk from a distance between fifteen feet (15') and one hundred-twenty feet (120').

BID NO.: 9695-0/18

TRAFFIC POLES, MAST HEADS AND L.E.D. SIGNALS & HOUSINGS

GROUP-B

Attachment for Appendix B



LED PedestianCountdownModule TS 08-15-07.dec

Traffic Poles, Mast Heads, and L.E.D. Signals

Submit Bid To: CLERK OF THE BOARD Stephen P. Clark Center 111 NW 1st Street 17th Floor, Suite 202 Miami, Florida 33128-1983 OPENING: 2:00 P.M.

Wednesday October 17, 2012

BID NO.: 9695-0/18



PLEASE QUOTE PRICES F.O.B. DESTINATION, FREIGHT ALLOWED, LESS TAXES, DELIVERED INMIAMI-DADE COUNTY, FLORIDA.

NOTE: Miami-Dade County is exempt from all taxes (Federal, State, Local). Bid price should be less all taxes. Tax Exemption Certificate furnished upon request.

Issued

ISD/PM

Date Issued:

This Bid Submittal Consists of

by: MH

October 3, 2012

Pages 64 thru 71+Affidavits

Sealed bids subject to the Terms and Conditions of this Invitation to Bid and the accompanying Bid Submittal. Such other contract provisions, specifications, drawings or other data as are attached or incorporated by reference in the Bid Submittal, will be received at the office of the Clerk of the Board at the address shown above until the above stated time and date, and at that time, publicly opened for furnishing the supplies or services described in the accompanying Bid Submittal Requirement.

Title:

Traffic Poles, Mast Heads, and L.E.D. Signals & Housings

A Bid Deposit in the amount of **N/A** of the total amount of the bid shall accompany all bids.

A Performance Bond in the amount of **N/A** of the total amount of the bid will be required upon execution of the contract by the successful awarded bidder and Miami-Dade County.

execution of the contract by the successful awarded bloder and Milami-Dade Country.			
DO NOT W	RITE IN THIS SPACE		
ACCEPTED_ NON-RESPONSIVE	HIGHER THAN LOW NON-RESPONSIBLE		
DATE B.C.C.	NO BID	FIRM NAME	
ITEM NOS. ACCEPTED)		
COMMODITY CODE:	550-85,550-80,285-76,570- 58,968-80, 550-88,550-81 and 550-89		
Procurement Contrac			

RETURN ONE ORIGINAL AND TWO COPIES OF BID SUBMITTAL PAGES AND AFFIDAVITS.
FAILURE TO COMPLETE THE CERTIFICATION REGARDING LOCAL PREFERENCE ON THE BID SUBMITTAL FORM IN SECTION 4 WILL RENDER THE AWARDED BIDDER INELIGIBLE FOR LOCAL PREFERENCE.

FAILURE TO SIGN THE BID SUBMITTAL FORM IN SECTION 4 WILL RENDER YOUR BID NON-RESPONSIVE.

BID NO.: 9695-0/18

Traffic Poles, Mast Heads, and L.E.D. Signals

Group A: Traffic Signal Poles, Mast Arms, and Street Light Poles

As Identified In Group A Specification Drawings

Item:	Est. Quantity:	Description:	Unit Price:
1	1,150	Traffic Signals Poles- 18" bolt Circle with anchor bolts & nuts and other applicable hardware Manufacturer Bid: Model# Bid:	\$Each
2	250	Traffic Signals Poles-22" bolt Circle with anchor bolts & nuts and other applicable hardware Manufacturer Bid: Model# Bid:	\$Each
3	100	Traffic Signal Mast Arms-64' with applicable hardware	\$Each
		Manufacturer Bid: Model# Bid:	
4	150	Traffic Signal Mast Arms-54' with applicable hardware Manufacturer Bid: Model# Bid:	\$Each
5	500 Each	Traffic Signal Mast Arms-48' with applicable hardware	\$Each
		Manufacturer Bid: Model# Bid:	
6	500 Each	Traffic Signal Mast Heads-36' with applicable hardware Manufacturer Bid: Model# Bid:	\$Each

BID NO.: 9695-0/18

Traffic Poles, Mast Heads, and L.E.D. Signals

7	150	Traffic Signal Mast Heads-28' with applicable hardware	\$Each
		Manufacturer Bid: Model# Bid:	
8	500	Street Light Poles-13" bolt Circle detail as shown on page 21 of the bid package with anchor bolts & nuts and other applicable hardware	\$Each
		Manufacturer Bid: Model# Bid:	
9	125	Decorative Street Light Poles- bolt circle detail as shown on page 20 of the bid package with anchor bolts & nuts and other applicable hardware	\$Each
		Manufacturer Bid: Model# Bid:	
10	125 Each	Decorative Street Light Poles- details as shown on page 22 of the bid package with anchor bolts & nuts and other applicable hardware	\$Each
		Manufacturer Bid: Model# Bid:	
11	25	Decorative Street Light Poles- detail as shown on page 23 of the bid package with anchor bolts & nuts and other applicable hardware	\$Each
		Manufacturer Bid: Model# Bid:	

BID NO.: 9695-0/18

Traffic Poles, Mast Heads, and L.E.D. Signals

Group B: L.E.D. Pedestrian Signals & Housing

As Identified In L.E.D. Pedestrian Signal Hand/Person Module

ltem:	Est. Quantity:	Description:	Unit Price:
1	1500	L.E.D. Hand/Person Signal Modules Only Dialight Model #430-6473-001 or Approved Equal	\$Each
		Model#	
2	750	L.E.D. Hand/Person Signal Modules Dialight Model #430-6473- 001Complete with Housing or Approved Equal	\$Each
		Model#	
3	2,500	L.E.D. Countdown Signals Modules Only Dialight Model #430-6479-001F or Approved Equal	\$Each
		Model#	
4	750	L.E. D Countdown Signals Modules Dialight Model #430-6479-001F or Approved Equal	\$Each
		Model#	1

BID NO.: 9695-0/18

Traffic Poles, Mast Heads, and L.E.D. Signals

In accordance to Section 2 Paragraph 2.25, requires the submission of the informat sheets on all items.		lion			
Did your Company attached information sheets?	Yes	No			
—In accordance to Section 3 Paragraph 3.1.14 S	treet Liaht	Poles	Minimun	n Requirem	ent
These Street Light Poles must meet the stand					
plans. Any deviation will not be accepted unle County Public Works and Waste Management					
Does your Company meet the above requirement	? Yes	No			

BID NO.: 9695-0/18

SECTION 4 BID SUBMITTAL FOR:

Traffic Poles, Mast Heads, and L.E.D. Signals & Housings

ACKNOWLEDGEMENT OF ADDENDA

INSTRUCTIONS: COMPLETE PART I OR PART II, WHICHEVER APPLIES
PART I:
LIST BELOW ARE THE DATES OF ISSUE FOR EACH ADDENDUM RECEIVED IN CONNECTION WITH THIS BID
Addendum #1, Dated
Addendum #2, Dated
Addendum #3, Dated
Addendum #4, Dated
Addendum #5, Dated
Addendum #6, Dated
Addendum #7, Dated
Addendum #8, Dated
PART II:
☐ NO ADDENDUM WAS RECEIVED IN CONNECTION WITH THIS BID
FIRM NAME:
AUTHORIZED SIGNATURE: DATE:
TITLE OF OFFICER:
THE VE VERVER

MIAMI-DADE COUNTY



BID NO.: 9695-0/18

Bid Title: Traffic Poles, Mast Heads, and L.E.D. Signals & Housings

By signing this Bid Submittal Form the Awarded bidder certifies that it satisfies all legal requirements (as an entity) to do business with the County, including all Conflict of Interest and Code of Ethics provisions in Section 2-11 of the Miami-Dade County Code. Any County employee or member of his or her immediate family seeking to contract with the County shall seek a conflict of interest opinion from the Miami-Dade County Ethics Commission prior to submittal of a Bid response or application of any type to contract with the County by the employee or his or her immediate family and file a copy of that request for opinion and any opinion or waiver from the Board of County Commissioners with the Clerk of the Board. The affected employee shall file with the Clerk of the Board a statement in a form satisfactory to the Clerk disclosing the employee's interest or the interest of his or her immediate family in the proposed contract and the nature of the intended contract at the same time as or before submitting a Bid, response, or application of any type to contract with the County. Also a copy of the request for a conflict of interest opinion from the Ethics Commission and any corresponding opinion, or any waiver issued by the Board of County Commissioners, must be submitted with the response to the solicitation.

In accordance with Sec. 2-11.1(s) of the County Code as amended, prior to conducting any lobbying regarding this solicitation, the Awarded bidder must file the appropriate form with the Clerk of the Board stating that a particular lobbyist is authorized to represent the Awarded bidder. Failure to file the appropriate form in relation to each solicitation may be considered as evidence that the Awarded bidder is not a responsible contractor.

The Awarded bidder confirms that this Bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a Bid for the same goods and/or services and in all respects is without collusion, and that the Awarded bidder will accept any resultant award. Further, the undersigned acknowledges that award of a contract is contingent upon awarded bidder registration. Failure to

register as a awarded bidder within the specified time may result in your firm not being considered for award. Pursuant to Miami-Dade County Ordinance 94-34, any individual, corporation, partnership, joint venture or other legal entity having an officer, director, or executive who has been convicted of a felony during the past ten (10) years shall disclose this information at the time of bid or Place a check mark here only if awarded bidder has such conviction to disclose. By executing this proposal through a duly authorized representative, the proposer certifies that the proposer is not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, as those terms are used and defined in sections 287.135 and 215.473 of the Florida Statutes. In the event that the proposer is unable to provide such certification but still seeks to be considered for award of this solicitation, the proposer shall execute the proposal through a duly authorized representative and shall In such event, the proposer shall furnish together with its proposal a duly executed written explanation of the facts supporting any exception to the requirement for certification that it claims under Section 287.135 of the Florida Statutes. The proposer agrees to cooperate fully with the County in any investigation undertaken by the County to determine whether the claimed exception would be applicable. The County shall have the right to terminate any contract resulting from this solicitation for default if the proposer is found to have submitted a false certification or to have been placed on the Scrutinized Companies for Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List. LOCAL PREFERENCE CERTIFICATION: For the purpose of this certification, a "local business" is a business located within the limits of Miami-Dade County (or Broward County in accordance with the Interlocal Agreement between the two counties) that conforms with the provisions of Section 1.10 of the General Terms and Conditions of this solicitation and contributes to the economic development of the community in a verifiable and measurable way. This may include, but not be limited to, the retention and expansion of employment opportunities and the support and increase to the County's tax base. Place a check mark here only if affirming awarded bidder meets requirements for Local Preference. Failure to complete this certification at this time (by checking the box above) shall render the awarded bidder ineligible for Local Preference. LOCAL CERTIFIED SERVICE-DISABLED VETERAN BUSINESS ENTERPRISE CERTIFICATION: A Local Certified Service-Disabled Veteran Business Enterprise is a firm that is (a) a local business pursuant to Section 2-8.5 of the Code of Miami-Dade County and (b) prior to bid submission is certified by the State of Florida Department of Management Services as a service-disabled veteran business enterprise pursuant to Section 295.187 of the Florida Statutes. Place a check mark here only if affirming awarded bidder is a Local Certified Service-Disabled Veteran Business Enterprise. A copy of the certification must be submitted with this proposal. COUNTY USER ACCESS PROGRAM (UAP): Joint purchase and entity revenue sharing program

For the County's information, the awarded bidder is requested to indicate, at 'A' and 'B' below, its general interest in participating in the Joint Purchase Program of the County User Access Program (UAP) described in Section 2.21 of this contract solicitation, if that section is present in this solicitation document. Awarded bidder participation in the Joint Purchase portion of the UAP is voluntary, and the awarded bidder's expression of general interest at 'A' and 'B' below is for the County's information only and shall not be binding on the awarded bidder.

۹.	If awarded this County contract, would you be interest in participating in the Joint Purchase portion of the UAP with respect to other
	governmental, quasi-governmental or not-for-profit entities located within the geographical boundaries of Miami-Dade County?

Yes		No

MIAMI-DADE COUNTY

MIAMI-DADE COURTS BID SUBMITTAL FORM BID NO.: 9695-0/18

If awarded this County contract, would you be interested in participating in the Joint Purchase portion of the UAP with respect to other governmental, quasi-governmental or not-for-profit entities located <u>outside</u> the geographical boundaries of Miami-Dade County? No _____ Yes ______ Firm Name: Street Address: Mailing Address (if different): Fax No.: _____ FEIN No. __/_ -_/_/_/_/__/__ Email Address: Prompt Payment Terms: _____% ____days net _____days (Please see paragraph 1.2 H of General Terms and Conditions) (Signature of authorized agent) Signature: *"By signing this document the awarded bidder agrees to all Terms and Conditions of this Solicitation and the resulting Contract." Title: THE EXECUTION OF THIS FORM CONSTITUTES THE UNEQUIVOCAL OFFER OF PROPOSER TO BE BOUND BY THE TERMS OF ITS PROPOSAL. FAILURE TO SIGN THIS SOLICITATION WHERE INDICATED ABOVE BY AN AUTHORIZED REPRESENTATIVE SHALL RENDER THE PROPOSAL NON-RESPONSIVE. THE COUNTY MAY, HOWEVER, IN ITS SOLE DISCRETION, ACCEPT ANY PROPOSAL THAT INCLUDES AN EXECUTED DOCUMENT WHICH UNEQUIVOCALLY BINDS THE PROPOSER TO THE TERMS OF ITS OFFER.

- 71 -



APPENDIX

AFFIDAVITS
FORMAL BIDS

MIAMI-DADE COUNTY



Momi-Dade County Internal Services Department Procurement Management Division

BID NO.: 9695-0/18

Affirmation of Vendor Affidavits

In accordance with Ordinance 07-143 amending Section 2-8.1 of the Code of Miami-Dade County, effective June 1, 2008, vendors are required to complete a new Vendor Registration Package, including a Uniform Affidavit Packet (Vendor Affidavits Form), before being awarded a new contract. The undersigned affirms that the Vendor Affidavits Form submitted with the Vendor Registration Package is current, complete and accurate for each affidavit listed below.

Contract No. :	Fec idc	ieral E millica	mployer flon Number (FEIN):	-
Contract Title:				·
	Affidavits and Legis	lation	1/ Governing Body	·
Miami-Dade County Ownership Sec. 2-8.1 of the County Code	Disclosure	8,	Miami-Dade Count Section 2-8.1 of the Co	y Vendor Obligation to County unly Code
Miami-Dade County Employme County Ordinance No. 90-133, amen the County Code	eni Disclosure ding Section 2.8-1(d)(2) of	7.	Adlicie 1, Section 2-8.18	y Code of Business Ethics and 2-11(b)(1) of the County Code through (de and County Ordinance No (b)-1 amending (aunty Code
Miami-Dade County Employme Warkplace Certification Section 2-8.1.2(b) f the County Code	ni Drug-free	ē.	Miami-Dade Count Article V of Chapter 11	y Family Leave of the County Code
Miami-Dade County Disability I Article 1, Section 2-8.1.5 Resolution R R-365-95	Van-Discrimination 182-00 amending	Ø.	Micmi-Dade Count Section 2-8.9 of the Co	
Miami-Dade County Debarmer Section 10,38 of the County Code	nt Disclosure	10.		nly Domestic Leave and Reporting 50 114-57 of the County Code
			y	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Printed Name of Affiant		Frintec	Title of Afflont	Signature of Afflant
	Name of Firm			Dale
Address of Firm	MANAGEMENT AND THE STATE OF THE		State	Zp Code
	Notary Pt	ıblic I	nformation_	
otary Public State of	Çour	ity of		
ibscribed and sworn to (or affirmed) bef	ore me this		_ day of,	20
У	He or she is	persor	cilly known to me	or has produced identification
pe of identification produced	And the second s	agelinas er en		· ·
Signature of Notary Public				Serial Number
Print or Stamp of Notary Public	Expiration	Dote		Notary Public Seal

BID NO.: 9695-0/18

FAIR SUBCONTRACTING PRACTICES

(Ordinance 97-35)

	lance with Section 1, F		ann angus ng Natha Si Barng Ka Barg Say (Abball) SAY (Abball)			
18. and 18. an	ungan kepit katalah dari yang propinsi kepit di Pada (S.C.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.		ann ann ann an Turker ann an Ann an Ann an An Ann an A			
						
reference to the second se	water and a second second second second second	The second secon				
and the state of t		entition and the space of the state of the s			والمواجعة والمحاسبة	·
			······································	and the state of t		
And the state of t						
			····			
any construction of the control of t	The state of the s	aar raay ja	opanyawana wanna merekani ofisiona kanesia	dud proposition all principal control of the most of all propositions.	ation to the second section of the s	~
A STATE OF THE STA	- Professional Control of State Control of C	avarrandere (a salapha se	n protestanta de la constitución d	ing typ die verlagende verschie zo zeich einbeste die bei Tie verschende de Statz bei verbeite.		
the Colonian Colonia		makengara, magampak 2005, polytopa reportugueta ki kata aliyah dan yaken mana		and the second s	en e	OF THE PARTY OF TH
				ngayan dan digang di Salah	and the second s	
		- The state of the				

Firm Name of Prime Contractor/Respondent

Project/Contract Number

In warmen by the first of the first care care and the second of the care of th

FEIN#

in consistentia Colonia (1-12, a) estip separativo dil benda de sance and chair de conservant al Maria especialment La compressió de la completa del completa de la completa de la completa del completa de la completa

	3 2 C C C C C C C C C C C C C C C C C C	ense al dilicata (nis tolan il dadinonal spaca is neoded.)		0000												ne i
			E			knacija Owas Bander vi male se kaj essatistira	Falsy 184 (Length Orange Falsy 184 (Length Value 1861) Precess By (Cenal Market)	ej go	4	Enter the number of mass one with course for the building of multiple to be second that		Employer stembor stembor		Over 1 Digned fine 8 out		
Comment Natura and Additions of			CANTAL CA						Section 1			Ž.				T
			ikis M	87098	20.8821 25.0454[1]			Æ	翻	垫	423	1970				2020
A TOTAL OF THE STATE OF THE			_	92301												
And the Control of th						****	30 M Transit							-	W. # 80 P. 1	
			2									******	(ASSESSED		Laura	Ī
							Prince of the property of the	200	***	Control of the contro					luia	
	· ·		结如推			F. Sand			Č	Che notes	200	2			Page	
That The Chees Supplies		Services to the Provided by Eropales	3 .	444	620	Angelei Angelei Anneelei		379 \$5)	X	2	6772	400	2021/2012 2021/2021		CONTRACTOR	l an
				ALTERNA			4					Ė	<u> </u>	-	ļ	
					·355,		poung		COLUMN TO SERVICE SERV		0.2				Parameter 1	ويديو
			tomate.				,,,,,,,					}	<u>. </u>			,
The state of the s	The state of the s		Contract of the Contract of th			1	The second second	Control of the last of the las	100					March Comme		Ç.

galde and coming the existence and and an in the second of the case of the case and the coming the second and coming the second and the second and the second and sec HEATH WAR STEAM cass Paginaria and

l certify that the representations contained in this Subcontractor/Supplier Usting are to the best of my knowledge true and accurate.

Signature of Bidden/Respondent

Print Name

Print Title

200